SEQUENCE LISTING

<110> Rosen et al.

<120> 36 Human Secreted Proteins

<130> PZ025P1C1D1

<150> 09/716,129
<151> 2000-11-17

<150> PCT/US99/03939
<151> 1999-02-24

<150> 60/076,053
<151> 1998-02-26

<150> 60/076,057
<151> 1998-02-26

<150> 60/076,052
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<160> 186

<170> PatentIn version 2

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<223> Xaa equals any of the twenty naturally occurring L-amino acids

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<211> 86
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<213> Artificial sequence

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<223> Primer

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cccgaaatat ctgccatctc aattag 86

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<213> Artificial sequence

<220>
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<211> 271
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<223> synthetic GAS containing promoter element

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gcccctaact ccgcccagtt ccgcccattc tccgccccat ggctgactaa ttttttttat 180
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<210> 7
<211> 31
<212> DNA
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<210> 8
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<210> 9
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<223> Primer

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<211> 256
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<213> Artificial sequence

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cagttccgcc cattctccgc cccatggctg actaattttt tttatttatg cagaggccga 180
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cttttgcaaa aagctt 256

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<211> 1441
<212> DNA
<213> Homo sapiens

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tttttcttct agaattatga tcaaacatgc actaattaga ccttttattg tattctcttt 180
gcttcttagg ctatgctctg aaaatttatt ttgtcctaat actcagttta tagttctgtc 240
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<212> DNA
<213> Homo sapiens

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attaggaatt tcaaatgaat gcagaaaatc ttacatgctg tgtactatta atattataac 240
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<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<222> (695)
<223> n equals a,t,g, or c

<220>
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<222> (874)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (1190)
<223> n equals a,t,g, or c

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<212> DNA
<213> Homo sapiens

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<222> (651)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (1124)
<223> n equals a,t,g, or c

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<211> 1057
<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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<221> misc_feature
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<223> n equals a,t,g, or c

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<210> 18
<211> 602
<212> DNA
<213> Homo sapiens

<400> 18
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taccaggaac ttgcatatct agagacagag actgagtcac tggcccatct ctttgctctt 540
gtccccaggc cagaataaag aatagagtgt aaaaaaaaaa aaaaaaaaaa aaaaaactcg 600
ag 602

<210> 19
<211> 629
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (533)
<223> n equals a,t,g, or c

<400> 19
gcacactttg accacttgtg atgagcctta tttgggagca aggtcttcaa ctttgtggtt 60
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gctgctycca tgttgcttgc tgcaaaggat atgattttgt yctttttttat ggctgtgtag 180
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ggttgattcc atgtctttgc tattgtgaat agcactgtga tgaacataga agtggattaa 300
atttcttttt cttgacagtc tcctaattta tgcttgtaca tatatttttc tctcatgcct 360
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atttttatct tttaatcctt taataggttt gaaagtctct cttgatatgg gtngctcaga 540
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aaaaaaaaaa aaaaaaaaaa aaactcgag 629

<210> 20
<211> 2067
<212> DNA
<213> Homo sapiens

<400> 20
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tccaataaag aaatccagag gcaggcagta gctggctttg attcagcctc tgactgtcac 180
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tggtaaggct ttctgggaga agtctggggt ggttatccgt gaggacctct cacctgatcc 720
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<210> 21
<211> 997
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> (963)
<223> n equals a,t,g, or c

<400> 21
cccgactcta ggccggaagc gcgcggagac catgtagtga gaccctcgcg aggtctgaga 60
gtcactggag ctaccagaag catcatgggg ccctggggag agccagagct cctggtgtgg 120
cgccccgagg cggtagcttc agagcctcca gtgcctgtgg ggctggaggt gaagttgggg 180
gccctggtgc tgctgctggt gctcaccctc ctctgcagcc tggtgcccat ctgtgtgctg 240
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gagttcatcc tggccatggg cttcttcctg gtcctggtga tggagcagat cacactggct 480
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<210> 22
<211> 1383
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (556)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (562)
<223> n equals a,t,g, or c

<400> 22
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attttatgac attttcccca ttgtcttcta ccttctggtg gtcttccaga tttcactgtg 180
aaatgctgtg gtttgtatct ttacttgtca cttttactgc acactcagtt gaatactctc 240
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agtactaata ttaagtgagg tctccttgtt tcaaagaaaa tggatgtcaa taaagcactg 480
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tgcactctag cctgggtggc agagcgaaac tctgtctcaa aaaaaaaaaa aaaaagggcg 1380
gcc 1383

<210> 23
<211> 1513
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1502)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (1512)
<223> n equals a,t,g, or c

<400> 23
gcagaatgtt taaaggcctt aggtatatgg agcgagctgc tgaaastatg gcaaggtggt 60
tgatctggcc ccactccatt tggatgcaag gatttcactt tctacccttc agcagcagct 120
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acaggatgca aatgctgcac agcrggaact gaagttattg cttcatcgtt ctactctgtt 240
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gaggcatctt tatcttatta aagtatcgag agacaaaata tcagacagca atgaccaaga 420
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caaaattatt cctacaaaaa aaaaaaaaaa aaactcgtag gggggcccg gtacccaatc 1500
cnaatttttc cnc 1513

<210> 24
<211> 1044
<212> DNA
<213> Homo sapiens

<400> 24
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atccaaggtg ctcactctta gccatagccg ttggtttcct ggatgctgac tgtgaagatt 120
ctaaagtgct tcctagggtg ggcggtggtg gcaggaggcc ttggacggag tcaggccaga 180
cccagcctcc tgtttaatag gctgagccca agcgtccctc agatgcgaat ccaacagcct 240

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gcacatggaa agcccctacg tttgtggaat gaatgaataa taaaaatgtt ttcataagtg 1020
aaaaaaaaaa aaaaaaaact cgag 1044

<210> 25
<211> 2575
<212> DNA
<213> Homo sapiens

<400> 25
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tggtctccca ggccgggggc cccgaaggca aagactactg catcctctac aacccgcagt 180
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<210> 26
<211> 718
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (21)
<223> n equals a,t,g, or c

<400> 26
aactagggat cccccgggct ncaggaattc gccactggrg ccaaagtgag agtccagcgg 60
tcttccagcg cttgggccac ggcggcggcc ctgggagcag aggtggagcg accccattac 120
gctaaagatg aaaggctggg gttggctggc cctgcttctg ggggccctgc tgggaaccgc 180
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agaatgggaa attgcccagg tggaccccaa gaagaccatt cagatgggat ctttccggat 300
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<210> 27
<211> 654
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (613)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (623)
<223> n equals a,t,g, or c

<400> 27
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aggtactgaa cgccacctca ctgtaagacg gtagattttg tattttacca caataaacaa 600
aacaaaacaa aanmaaaaaa aanaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaa 654

<210> 28
<211> 1445
<212> DNA
<213> Homo sapiens

<400> 28
ggcacgaggg atttgaacaa gatcattaga attcaaaaaa caccagaaat gaaagatctt 60
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gtctgtgctc cttcacaaaa gtccctatga atttgtttct caatgtgatc cttcttaagt 180
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gctctgtgtg gatttgggcc cctcatcttc atttattata ttatcaaaac tgagagggta 360
agtattcaga ccagatgttt agtatttgag tgataggttc actttctagg gaccagctgc 420
agctccttct cttgaagatt gccaccagtg cccctcccac cttggggctg tcctctgcct 480
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cagtcacctt tgtctatttt tgttagttca tttgtttttt aaaaagatga tgtttattgg 600
gttaagtatt agcagaatac ataaatcatt tagtacgttt cctgtttgcg tgaattctat 660
ttatgttggt cacattttgc aaattaatgt taaaacctat taatactcta cgggacagag 720
aagcacaagc tgcctgtgtg gggaatagct gccgtcagca gcctgggtat atgattggag 780
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aaaaa 1445

<210> 29
<211> 2020
<212> DNA
<213> Homo sapiens

<400> 29
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ccgccgcagt gtacccagga cccagccatg gtgcattaca tctaccagcg ctttcgagtc 180
ttggagcaag ggctggaaaa atgtacccaa gcaacgaggg catacattca agaattccaa 240
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aagagtgcag tgggtaactt ggcactgaga gttgaacgtg cccaacggga gattgactac 360
atacaatacc ttcgagaggc tgacgagtgc atcgaatcag aggacaagac actggcagaa 420
atgttgctcc aagaagctga agaagagaaa aagatccgga ctctgctgaa tgcaagctgt 480
gacaacatgc tgatgggcat aaagtctttg aaaatagtga agaagatgat ggacacacat 540
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ccagctcccc ggaagcaaat cctaacactt tcctggcagg gaacaggcca agtgatctac 720
aaaggttttc tatttttca taaccaagca acttctaatg agataatcaa atataacctg 780
cagaagagga ctgtggaaga tcgaatgctg ctcccaggag gggtaggccg agcattggtt 840
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ttgaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2020

<210> 30
<211> 1083
<212> DNA
<213> Homo sapiens

<400> 30
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ctccgggatt ctgctcctgg cggtttctcc aggctggtga tgggcaagcc gggtgtacca 180
agtccaggat gcacatgagg agcgtttgta gcagtcactg aatcacctca tgactagcgg 240
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cctatctttt gctgctagag ctgctttcga aaagaagtct tttcttgcag tggtatcttt 480
tctttgggtt acagtgttgt tcatcctttc tttgccgaaa gaatgaatcc cagtgcttca 540
caaggttaaa ggaaagatct gctggtagtg tttagtcttt gttctgagct gatatgtgtt 600
agtagctttt tgtttttaaa ttttattagt aaaatttcac cagtgaacca gaagctcttt 660
ttttctgttg tgaaatgcta gctttaagat ttctgagaac tttgtgtcaa agaaatcttt 720
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cggtagatca cacctgtaat cccagcactt tgggacgcca aggtgggcgg atcacttgag 840
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ggaggatcac cagagcccag gaggttgaga ttgcagtgag ccgtgatcat ggcagtgcac 1020
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gag 1083

<210> 31
<211> 1580
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1513)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (1542)
<223> n equals a,t,g, or c

<400> 31
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ggtgctgcga gggcagaacc tggtgttgat gggaaccatt ttcagcatcc tgctggtgac 180
tgtcatcctt atggcatttt gtgtctacaa gcccattcgg cgtcggtgac agccagacaa 240
gttcttcaat gagtatttgg gaataggata agttgtgttg cacacaggcc agtggagaag 300
ttggaaccaa aactttccta cttggaaatg acctttggtc tggacagttg gtaaatgcta 360
aatgaattag aagaaaacat gtactagaca ttatttttc ctaacactgt agcgcaaata 420
attggcccct gagtccgctt ctcagtgttt ctgactgtac ttgttaaaag taagacctga 480
aagctccaaa ggtcagtgta aagatggagt gttcatgaga aagaaaacat ggtaaccttg 540
tgagtgcctg taagaaccac actgtaaaga actcatcatt aatgcttgaa aatgttatta 600
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agaatcacag attttttttt ttaatctcac ctgagttagc ctagaatgcg ctggttgcaa 720
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gtaactgtgt aaggattttg tttgtaatct tgtaacattg aaccattgaa atgttcagtt 1380
ctttgctttt gagcaaaacg tcaattaaaa ctaaagtaaa atcctatata ttgttttact 1440
ccaccagtta tttcccaagt gtttgaaatg caggtgtgtg tctgaatttg gatctaatcc 1500
acttaaagga ggnctgtgga ggggaaattc ctttttgag gncgggtttt gggtcccctt 1560
gcccggggaa agggttcccg 1580

<210> 32
<211> 796
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (748)
<223> n equals a,t,g, or c

<400> 32
tcggcccgag aagaaatgtg acgcactctc accaagatgc tgaagctgac attcatcaat 60
aagcagctgt gcatccacta ggcatttggt aaatgttaac ttatctaccg aggtggtgtt 120
ttcttagcct cccacctcct tgctgtggag cagcttcatg taccatgatg catattcaga 180
tcattcttaa tactcatatt ttgatagaga ggtttttagg ttttctttta aaccaagttt 240
attgagataa actactttgg taggatatgg aacttaggaa taatggtatg aaactagaca 300
gctttttttt ttttattaca ctttaagttc tgggatatgt gttcagaaca tgcaggtttg 360
ttacataggt atacacgtgc catggtggtt tgctgcaccc atcaacctgt catctgtatt 420
cggtgtttct cctaattcta tcccwcccct acccccctgc ccccaaaaag gccccagtgt 480
gtgatggtcc cctccctgtg tccatgtgtt ctcattgttc aactcccact tatgagtgag 540
aacatgaggt gtttggtttt ttcttcctgt gttagtttgc tgagaatgat ggcttccagc 600
ttcatccatg tccctkcaaa ggacatgaac tcagtccttt tttatggctg catagtattt 660
cgtggtatat aagtgccaca ttttctttat ycagtctayc atttgggttg gttccaaatc 720
tttgctattg tgaatagtgc cgcaatanac atacgtgtgc atgtgtcttt aaaaaaaaaa 780
aaaaaaaaaa ctcgag 796

<210> 33
<211> 1256
<212> DNA
<213> Homo sapiens

<400> 33
ctatgttcca tcattccttc ccaaagccac cggaagcatt ccttctagga aaggtggagt 60
cggtagtgag aagccggagg tgcccctaca gacatacaag gagattgttc actgctgyga 120
ggagcaggtc ttaactctgg ccactgaaca gacctatgct gtggagggtg agacacccat 180
caaccgcctg tccctgctgc tctctggccg ggttcgtgtg agccaggatg ggcagtttct 240
gcactacatc tttccatacc agttcatgga ctctcctgag tgggaatcac tacagccttc 300
tgaggagggg gtgttccagg tcactctgac tgctgagacc tcatgtagct acatttcctg 360
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ggctctgctg ggatatgaca tctcggagaa gctctacact ctcaatgaca agctctttgc 480
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tgctgcagat gctggaccag agtccgagaa gggtgatgag gaagtctgtg agccagctgt 600
gtcccctcct caggccacac ccacctctct ccagcaaaca ccccttgtt ctacccctcc 660
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catactggct tctagaattc ctctccagag ctactctcaa gttatatcca ggggacaggc 780
ccctttggct ccaacccaca cgcctgaact ttaaggatca ttggactatc ttctctgtgg 840
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cccactggaa ggctcacagg caaggtgaga gaggacacag aaggtgccaa cactgtcgct 960
acagtaagga cctgaagtga ctttgagaaa ttcaccctca caaaccttcc ttcaggagca 1020
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ggttgttgtg aggatccaat gagttgattt aggtaagcac ctagcacatg ccgtggcacc 1200
aagtaagcac tcaataaatc actcaactcc ttaaaaaaaa aaaaaaaaaa ctcgag 1256

<210> 34
<211> 1064
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (462)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (1047)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (1048)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (1050)
<223> n equals a,t,g, or c

<400> 34
cttcagcctg ggcaacagag caagaacctg tctcagtcaa tcaataaatg tatgtatata 60
tatatatgta tatatgtcag accaccgtct gaaattgctg ttcatgattg gaaatcgaac 120
tggaaacccg aaggcaggag atgtgtgctc ccttgggatg tatggggaaa tcacacagag 180
ctgttagtac ttcagtcatg ggatttgctc tcatgctatg catatgggcc tcacaacttg 240
taaatgccac tggaagatgg cttatctaag gttccttatt ttgtggtctt tccccttag 300
ttctgcagtg agtggggcaa agcgtgtcac tgacctttg aatggaaaac actggaagcc 360
ttagcgttct taattcctga aatgttcatt tttwcttcta agcaactggg cttcasagga 420
gattagggca ggcaataaca gtgttgacac cagggcaact gntttcycct gttatgggat 480
tatwcaacat ctgctttctg ctaagctcca tggaaggcac agaggaaaca cagcagagtc 540
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tttgatccat cccttctcta agcacatctc agatttctgt gctacctgat ttaacccttt 660
cagttcatag aacccagaag gataaggtga aaagatagac cgggaaaagt aatgcaagtg 720
gccaagagta gcttccactt caaagttcct catgtgtgtg tgctaacatt gtgacttctg 780
ttcagtcatt gtcagtataa actgtacatt ggaatcattt gtagcttttt aaaaaatgcc 840
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ctctatttga gccaggctta ttggcacctg cctgtagtcc cgtactcaga aggctgaagt 960
gagaggatcg cttgaactca ggagtttaac gccagcagag gcaatagggc aaaatagcga 1020
gatctcatct ctttaaaaaa aaaaaannтn aaaagggcgg ccgc 1064

<210> 35
<211> 755
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (733)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (734)
<223> n equals a,t,g, or c

<400> 35
natttcccgt tcagttattc cggtgacact atagaaggta cgcctgcagg taccggtccg 60
gaattcccgg gtcgacccac gcgtccgaac tcctgaaaca gtgaggacat ctcacagacc 120
agacaggagc tggggctctg catctcacag cggtgcctgt cagacaggaa gaagtcccgc 180
agaagtggcg tgtgggtcag ggcctgcacg atgcagttca tgaagcatgt gttcccaagg 240
ttgatcagcc cacgcagacc tatggtgcag ttcgaggtga tctttctcct tttcgggttg 300
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ccttgcattt tccaagcttt tcgctgctcc tccttggcga ttatttccat gtctttgtca 420
tagatgtagt cctggcacag aaaacagtag atgcctccgt acatcagatc aatggccagg 480
ttgtgccgct tcgccttcgc atgctcgtga atatgcttct ttgtgaaaca gccgaagaag 540
acacagtaga ggcaggaatg cagcctgttg aggtggacgc cacagacatg gcagatacag 600
gacttggcct tgcgcttgcg ggcctcagcc gtgccgctcc acacgaagca ctggtagatg 660
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ggcgctaccg ccnnctcggc gtccatggcc tcgcc 755

<210> 36
<211> 604
<212> DNA
<213> Homo sapiens

<400> 36
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acgtgacttt tatttaagtt gtcagattta ttggaaatgt tgttcgtaat atcttttgat 120
gtctgtggta cctgtaatga ttccttttтt actactactg ttttttttct ctctctcttc 180
cacccaccat ccccatttac tttatttttc catctttata ttttcaggct ctttattggt 240
cagaattctt agttgtagaa aagagagttc acaccaggta ctcttaagca gaaaatgttt 300
tattaagggg cacagacagc acagacagct tacaaaagtg taggggaccc aaacagaaac 360
cctttaattt tactgattag aatggggagc tcaacagagg caactattaa aatgtgcaga 420
aggtattcag aagattgtga gcaggcatat atgagagatt tcattacaag ctctctacag 480

taaccaacca taatgcagaa tagaaattca ttattttgga cttttgctac ctgtcaattt 540
aactgttacg tttttacgga cttgttaaaa aagtgattag atagactgtt ttagattttc 600
ctta 604

<210> 37
<211> 812
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (17)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (108)
<223> n equals a,t,g, or c

<400> 37
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caccgcgttg gcggccgctc tagaactagt ggatcccccg ggctgcanga attcggccac 120
gagaggactt ccccacctca tgcagctatt tgggccgtgg cgtctgaaat ttattatttc 180
agagtcaccc ctttratgac cttggcagtg ractgcagtc atctgtttag gcctttccat 240
ggcccacgtc aatgccgtta tttctgtttg ttgcacattt gatttccttg ttgttggcat 300
ttagaaggcc ccctgcttcc cagatcacac cacgggcatg gaccacagag attgcatctt 360
gtgagtctgt agaaatggtc aaggccttgt cctctcttag gtccagagct caggtgaatg 420
cagattttcc cggccatctg tgctgaagtc cctgtgggga ggctcctggc tggtttcctg 480
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tacaaaacat gtctcccttc ttgaatcaca tctctgttat tgaagctctg gaagtcaacc 600
gggcgtggtg gctatgccta taatcccagc attttgggat gccggggcgg gtggatcacc 660
tgaggtcagg agttcgggac cagcctggcc aacatggcga aaccccgtct ctaatacaag 720
tgcaaaaatt ggccaggcgt ggtggtcact gtgctccagc ctgggtgaca gagcgagctc 780
cgtctcaaaa aaaaaaaaaa aaaaaactcg ag 812

<210> 38
<211> 1149
<212> DNA
<213> Homo sapiens

<400> 38
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tgtatacagt aggaatctaa tttttttttat ccatatgata gtcagttggc cctccttttct 120
tcagttacct gcagtgcatc aatgtcatca gtcaagtgtc catatatgtg gtgtttctgg 180
gcttttcccc tcttccaatt atcagtgttt atccctgtgt caaaatcaca cagtattaat 240
tattacaact ttatagtaag tcttaatatt tagtagggca agtcttttta tttgataaga 300
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ataaccaaga gttttgggat attgagtctt cattcattaa catagctttt ctcttcattt 480
atttaggtct tatttttca tagagcttta aaaggtttac tataaaatct ttaaggggta 540
aactcttgaa taaggtccag agttaaatag tggagagtta caggtgtctg tttgccccaa 600
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aaacatattg taaataatag agtgataatg gccacttacc tgagccttat tataaacaga 780
aacaaatatc caaccaatgc catagagcag aagtacagcc tgaaaccaag aagaaaaaga 840
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<210> 39
<211> 1087
<212> DNA
<213> Homo sapiens

<400> 39
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<210> 40
<211> 1276
<212> DNA
<213> Homo sapiens

<400> 40
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<211> 2083
<212> DNA
<213> Homo sapiens

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<210> 42
<211> 1016
<212> DNA
<213> Homo sapiens

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<210> 43
<211> 2197
<212> DNA
<213> Homo sapiens

<400> 43
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<210> 44
<211> 1999
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (965)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (973)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (1110)
<223> n equals a,t,g, or c

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<211> 1519
<212> DNA
<213> Homo sapiens

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<210> 46
<211> 1189
<212> DNA
<213> Homo sapiens

<400> 46
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<210> 47
<211> 2584
<212> DNA
<213> Homo sapiens

<220>

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<222> (1389)
<223> n equals a,t,g, or c

<400> 47
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catatgatga gattggcatt cccgtggccc tgctcagcta caaagacatg ctggacatct 480
tcacgcgttt cggccgcacg gtgagggcgg cgctgtatgc gcctaaggag ccggtgctgg 540
actacaacat ggtcatcatc ttcatcatgg ctgtgggsac cgtcgccatc ggcggctact 600
gggccgggak tcgggacgtg aagaaaaggt acatgaagca caagcgcgac gatgggcccg 660
agaagcagga ggacgaggcg gtggacgtga cgccggtgat gacctgcgtg tttgtggtga 720
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gcygkgagct gggcgtgttc tggacgggca gcggctttgc gaaagtccta cctccatctc 1560
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aggggagggg tgagacgctc gctgccgtgc ccgccacacc aagatgttgg ggctgcctgg 1860
cgcccactgg agacagacag acagacgcyt gtcccccggg accgaggcct gtgccgtccc 1920
cacccgcccc aacatggtgc ttatccttgc cgagacccct gcagtccgtg cccgcgccca 1980
gcccagctgc cccggctgca cgcctgctgc tcccagctcg cccggctgcc acaagctctc 2040
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ggcgtgaaca aggctggcag taagtggaca agctgctccc ctggctaagg ccctgccctg 2460
ccctcagcca gaggtgcctg gccatgcctg cacactcctc cccattttaa taaatggtcg 2520
caacttcaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaagggcgg 2580
ccgc 2584

<210> 48
<211> 55
<212> PRT
<213> Homo sapiens

<400> 48
Met Ile Lys His Ala Leu Ile Arg Pro Phe Ile Val Phe Ser Leu Leu
1 5 10 15

```
Leu Arg Leu Cys Ser Glu Asn Leu Phe Cys Pro Asn Thr Gln Phe Ile
             20                  25                  30

Val Leu Ser Cys Phe Gln Ser Val Val Lys Ser Leu Leu Ser Ile Leu
         35                  40                  45

Asn Leu Ser Tyr Cys Ile Phe
     50                  55


<210> 49
<211> 40
<212> PRT
<213> Homo sapiens

<400> 49
Met Asn Ser Cys Leu Phe Leu Cys Ile Leu Ile Leu Glu Ser Ala Met
  1               5                  10                  15

Val Val Leu Met Lys Val His Phe Ile Val Ala Phe Glu Leu Thr Ala
             20                  25                  30

Lys Ala Ile Asn Gln Lys Gln Lys
         35                  40


<210> 50
<211> 93
<212> PRT
<213> Homo sapiens

<400> 50
Met Ala Arg Lys Ser Phe Ala Leu Leu Met Phe Val Trp Gln Met Ser
  1               5                  10                  15

Leu Ser Leu Pro Ile Lys Gly Phe Ile Leu Arg Val Ala Asn Trp Leu
             20                  25                  30

Phe Lys Pro His Leu Asn Ser Val Cys Leu Gly Trp Gln Asn His Thr
         35                  40                  45

Arg Phe Cys Trp Ala Asn Leu Pro Gly Gly Val Leu Leu Glu Glu Ser
     50                  55                  60

Ala Thr Ala Glu Asp Thr Leu Ser Trp Pro Leu Ala Leu Gln Thr Ile
 65                  70                  75                  80

Val Glu Glu Gly Val Trp Gly His Gln Pro Leu Pro Gly
                 85                  90


<210> 51
<211> 83
<212> PRT
<213> Homo sapiens

<400> 51
Met Leu Ser Leu Phe Phe Cys Phe Trp Lys Pro Ser Phe Leu Val Ser
  1               5                  10                  15
```

```
Arg Leu Val Ile Trp Leu Gly Leu Val Cys Gly Gly Arg Ser Leu Ser
            20                  25                  30

Trp Val Ala Leu Gly Glu Asp Tyr Leu Gly Thr Pro Ile Leu Ile Pro
        35                  40                  45

Asn Ile His Gln Thr Cys Pro His Pro Pro Leu Trp Glu Leu Val Pro
    50                  55                  60

Glu His Pro Cys Arg Leu Val Leu Ile Phe Ser Leu Cys Glu His Thr
65                  70                  75                  80

His Ile Arg
```

<210> 52
<211> 65
<212> PRT
<213> Homo sapiens

<400> 52

```
Met Leu Ser Pro Lys Ser Pro Arg Met Leu Leu Pro Cys Leu Leu Gln
  1               5                  10                  15

Pro Leu Val Val Ala Asn Ile Pro Arg Val Pro Trp Leu Ala Asp Glu
            20                  25                  30

Ser Leu Asn Pro Thr Pro Ile Ile Thr Trp Gln Ser Pro Cys Val Ala
        35                  40                  45

Gln Leu Cys Pro Asn Phe Pro Phe Pro Thr Arg Thr Leu Val Thr Gly
    50                  55                  60

Leu
65
```

<210> 53
<211> 52
<212> PRT
<213> Homo sapiens

<400> 53

```
Met His Cys His Ser Ala Leu Gly Pro Met Ser Thr Pro Val Leu Pro
  1               5                  10                  15

Phe Ser Gly Ile Gly Leu Ala Phe Leu Cys Leu Cys Leu Ala Ala Ser
            20                  25                  30

Met Val Asp Leu Lys Cys Leu Gly Met Asn Ser Thr Leu Leu Gln Pro
        35                  40                  45

Ser Ile Lys Glu
    50
```

<210> 54
<211> 540
<212> PRT

<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (10)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> MISC_FEATURE
<222> (469)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 54

```
Met Ala Thr Ser Gly Ala Ala Ser Ala Xaa Leu Val Ile Gly Trp Cys
  1               5                  10                  15

Ile Phe Gly Leu Leu Leu Leu Ala Ile Leu Ala Phe Cys Trp Ile Tyr
             20                  25                  30

Val Arg Lys Tyr Gln Ser Arg Arg Glu Ser Glu Val Val Ser Thr Ile
         35                  40                  45

Thr Ala Ile Phe Ser Leu Ala Ile Ala Leu Ile Thr Ser Ala Leu Leu
     50                  55                  60

Pro Val Asp Ile Phe Leu Val Ser Tyr Met Lys Asn Gln Asn Gly Thr
 65                  70                  75                  80

Phe Lys Asp Trp Ala Asn Ala Asn Val Ser Arg Gln Ile Glu Asp Thr
                 85                  90                  95

Val Leu Tyr Gly Tyr Tyr Thr Leu Tyr Ser Val Ile Leu Phe Cys Val
            100                 105                 110

Phe Phe Trp Ile Pro Phe Val Tyr Phe Tyr Tyr Glu Glu Lys Asp Asp
        115                 120                 125

Asp Asp Thr Ser Lys Cys Thr Gln Ile Lys Thr Ala Leu Lys Tyr Thr
    130                 135                 140

Leu Gly Phe Val Val Ile Cys Ala Leu Leu Leu Leu Val Gly Ala Phe
145                 150                 155                 160

Val Pro Leu Asn Val Pro Asn Asn Lys Asn Ser Thr Glu Trp Glu Lys
                165                 170                 175

Val Lys Ser Leu Phe Glu Glu Leu Gly Ser Ser His Gly Leu Ala Ala
            180                 185                 190

Leu Ser Phe Ser Ile Ser Ser Leu Thr Leu Ile Gly Met Leu Ala Ala
        195                 200                 205

Ile Thr Tyr Thr Ala Tyr Gly Met Ser Ala Leu Pro Leu Asn Leu Ile
    210                 215                 220

Lys Gly Thr Arg Ser Ala Ala Tyr Glu Arg Leu Glu Asn Thr Glu Asp
225                 230                 235                 240

Ile Glu Glu Val Glu Gln His Ile Gln Thr Ile Lys Ser Lys Ser Lys
                245                 250                 255
```

```
Asp Gly Arg Pro Leu Pro Ala Arg Asp Lys Arg Ala Leu Lys Gln-Phe
             260                 265                 270

Glu Glu Arg Leu Arg Thr Leu Lys Lys Arg Glu Arg His Leu Glu Phe
         275                 280                 285

Ile Glu Asn Ser Trp Trp Thr Lys Phe Cys Gly Ala Leu Arg Pro Leu
     290                 295                 300

Lys Ile Val Trp Gly Ile Phe Phe Ile Leu Val Ala Leu Leu Phe Val
305                 310                 315                 320

Ile Ser Leu Phe Leu Ser Asn Leu Asp Lys Ala Leu His Ser Ala Gly
                325                 330                 335

Ile Asp Ser Gly Phe Ile Ile Phe Gly Ala Asn Leu Ser Asn Pro Leu
             340                 345                 350

Asn Met Leu Leu Pro Leu Leu Gln Thr Val Phe Pro Leu Asp Tyr Ile
         355                 360                 365

Leu Ile Thr Ile Ile Ile Met Tyr Phe Ile Phe Thr Ser Met Ala Gly
     370                 375                 380

Ile Arg Asn Ile Gly Ile Trp Phe Phe Trp Ile Arg Leu Tyr Lys Ile
385                 390                 395                 400

Arg Arg Gly Arg Thr Arg Pro Gln Ala Leu Leu Phe Leu Cys Met Ile
                405                 410                 415

Leu Leu Leu Ile Val Leu His Thr Ser Tyr Met Ile Tyr Ser Leu Ala
             420                 425                 430

Pro Gln Tyr Val Met Tyr Gly Ser Gln Asn Tyr Leu Ile Glu Thr Asn
         435                 440                 445

Ile Thr Ser Asp Asn His Lys Gly Asn Ser Thr Leu Ser Val Pro Lys
     450                 455                 460

Arg Cys Asp Ala Xaa Ala Pro Glu Asp Gln Cys Thr Val Thr Arg Thr
465                 470                 475                 480

Tyr Leu Phe Leu His Lys Phe Trp Phe Phe Ser Ala Ala Tyr Tyr Phe
                485                 490                 495

Gly Asn Trp Ala Phe Leu Gly Val Phe Leu Ile Gly Leu Ile Val Ser
             500                 505                 510

Cys Cys Lys Gly Lys Lys Ser Val Ile Glu Gly Val Asp Glu Asp Ser
         515                 520                 525

Asp Ile Ser Asp Asp Glu Pro Ser Val Tyr Ser Ala
     530                 535                 540
```

<210> 55
<211> 177
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (67)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 55
Met Phe Gln Val Arg Pro Gly Trp Gln Leu Leu Leu Val Met Phe Ser
1 5 10 15

Ser Cys Ala Val Ser Asn Gln Leu Leu Val Trp Tyr Pro Ala Thr Ala
20 25 30

Leu Ala Asp Asn Lys Pro Val Ala Pro Asp Arg Arg Ile Ser Gly His
35 40 45

Val Gly Ile Ile Phe Ser Met Ser Tyr Leu Glu Ser Lys Gly Leu Leu
50 55 60

Ala Thr Xaa Ser Glu Asp Arg Ser Val Arg Ile Trp Lys Val Gly Asp
65 70 75 80

Leu Arg Val Pro Gly Gly Arg Val Gln Asn Ile Gly His Cys Phe Gly
85 90 95

His Ser Ala Arg Val Trp Gln Val Lys Leu Leu Glu Asn Tyr Leu Ile
100 105 110

Ser Ala Gly Glu Asp Cys Val Cys Leu Val Trp Ser His Glu Gly Glu
115 120 125

Ile Leu Gln Ala Phe Arg Gly His Gln Asp Val Tyr Pro Val Val Val
130 135 140

Gly Ala Glu Ile His Ala Glu Leu Tyr Gln Glu Leu Ala Tyr Leu Glu
145 150 155 160

Thr Glu Thr Glu Ser Leu Ala His Leu Phe Ala Leu Val Pro Arg Pro
165 170 175

Glu

<210> 56
<211> 83
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (36)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 56
Met Ser Leu Ile Trp Glu Gln Gly Leu Gln Leu Cys Gly Phe Cys Leu
1 5 10 15

Phe Tyr Leu Val Phe Cys Phe Cys Ile Ser Ser Leu Arg Val Met Ala

```
            20                  25                  30

Phe Ser Cys Xaa His Val Ala Cys Cys Lys Gly Tyr Asp Phe Val Leu
         35                  40                  45

Phe Tyr Gly Cys Val Val Phe His Gly Val Tyr Gly Pro His Phe Leu
     50                  55                  60

Tyr Pro Ile His His Ile Trp Ala Pro Arg Leu Ile Pro Cys Leu Cys
 65                  70                  75                  80

Tyr Cys Glu
```

<210> 57
<211> 131
<212> PRT
<213> Homo sapiens

<400> 57

```
Met Leu Trp Thr Leu Thr Phe Phe Leu Leu Gln Arg Ser Leu Thr Ser
  1               5                  10                  15

Pro Trp Leu Phe Gly Leu Leu Phe Leu Gly Ser Ser Asn Thr Ala Val
             20                  25                  30

Cys Cys Phe Leu Gly Gln Leu Ile Met Gly Pro Lys Gly Glu Arg Gly
         35                  40                  45

Phe Pro Gly Pro Pro Gly Arg Cys Leu Cys Gly Pro Thr Met Asn Val
     50                  55                  60

Asn Asn Pro Ser Tyr Gly Glu Ser Val Tyr Gly Pro Ser Ser Pro Arg
 65                  70                  75                  80

Val Pro Val Val Arg Leu Ser Gly Arg Ser Leu Gly Trp Leu Ser Val
                 85                  90                  95

Arg Thr Ser His Leu Ile Leu Met Gly Leu Cys Lys Ile Leu Ser Val
            100                 105                 110

Lys Leu Thr Phe Phe His Asp Ser Glu Tyr Thr Leu Ile Ile Gly Asn
        115                 120                 125

Trp Lys Ile
    130
```

<210> 58
<211> 187
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (167)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 58

```
Met Gly Phe Phe Leu Val Leu Val Met Glu Gln Ile Thr Leu Ala Tyr
  1               5                  10                  15

Lys Glu Gln Ser Gly Pro Ser Pro Leu Glu Glu Thr Arg Ala Leu Leu
             20                  25                  30

Gly Thr Val Asn Gly Gly Pro Gln His Trp His Asp Gly Pro Gly Val
         35                  40                  45

Pro Gln Ala Ser Gly Ala Pro Ala Thr Pro Ser Ala Leu Arg Ala Cys
     50                  55                  60

Val Leu Val Phe Ser Leu Ala Leu His Ser Val Phe Glu Gly Leu Ala
 65                  70                  75                  80

Val Gly Leu Gln Arg Asp Arg Ala Arg Ala Met Glu Leu Cys Leu Ala
                 85                  90                  95

Leu Leu Leu His Lys Gly Ile Leu Ala Val Ser Leu Ser Leu Arg Leu
            100                 105                 110

Leu Gln Ser His Leu Arg Ala Gln Val Val Ala Gly Cys Gly Ile Leu
        115                 120                 125

Phe Ser Cys Met Thr Pro Leu Gly Ile Gly Leu Gly Ala Ala Leu Ala
    130                 135                 140

Glu Ser Ala Gly Pro Leu His Gln Leu Ala Gln Ser Val Leu Glu Gly
145                 150                 155                 160

Met Ala Ala Gly Thr Phe Xaa Tyr Ile Thr Phe Leu Glu Ile Leu Leu
                165                 170                 175

Phe His Pro Lys Phe Lys Gly Val Ser Arg Arg
            180                 185


<210> 59
<211> 40
<212> PRT
<213> Homo sapiens

<400> 59
Met Thr Phe Ser Pro Leu Ser Ser Thr Phe Trp Trp Ser Ser Arg Phe
  1               5                  10                  15

His Cys Glu Met Leu Trp Phe Val Ser Leu Leu Val Thr Phe Thr Ala
             20                  25                  30

His Ser Val Glu Tyr Ser Gln Tyr
         35                  40


<210> 60
<211> 338
<212> PRT
<213> Homo sapiens

<400> 60
Met Tyr Gly Tyr Val Asp Thr Leu Leu Thr Met Leu Ala Met Leu Leu
```

```
  1               5                  10                  15

Lys Val Ala Met Asn Arg Ala Gln Val Cys Leu Ile Ser Ser Ser Lys
            20                  25                  30

Ser Gly Glu Arg His Leu Tyr Leu Ile Lys Val Ser Arg Asp Lys Ile
        35                  40                  45

Ser Asp Ser Asn Asp Gln Glu Ser Ala Asn Cys Asp Ala Lys Ala Ile
    50                  55                  60

Phe Ala Val Leu Thr Ser Val Leu Thr Lys Asp Asp Trp Trp Asn Leu
65                  70                  75                  80

Leu Leu Lys Ala Ile Tyr Ser Leu Cys Asp Leu Ser Arg Phe Gln Glu
                85                  90                  95

Ala Glu Leu Leu Val Asp Ser Ser Leu Glu Tyr Tyr Ser Phe Tyr Asp
            100                 105                 110

Asp Arg Gln Lys Arg Lys Glu Leu Glu Tyr Phe Gly Leu Ser Ala Ala
        115                 120                 125

Ile Leu Asp Lys Asn Phe Arg Lys Ala Tyr Asn Tyr Ile Arg Ile Met
    130                 135                 140

Val Met Glu Asn Val Asn Lys Pro Gln Leu Trp Asn Ile Phe Asn Gln
145                 150                 155                 160

Val Thr Met His Ser Gln Asp Val Arg His His Arg Phe Cys Leu Arg
                165                 170                 175

Leu Met Leu Lys Asn Pro Glu Asn His Ala Leu Cys Val Leu Asn Gly
            180                 185                 190

His Asn Ala Phe Val Ser Gly Ser Phe Lys His Ala Leu Gly Gln Tyr
        195                 200                 205

Val Gln Ala Phe Arg Thr His Pro Asp Glu Pro Leu Tyr Ser Phe Cys
    210                 215                 220

Ile Gly Leu Thr Phe Ile His Met Ala Ser Gln Lys Tyr Val Leu Arg
225                 230                 235                 240

Arg His Ala Leu Ile Val Gln Gly Phe Ser Phe Leu Asn Arg Tyr Leu
                245                 250                 255

Ser Leu Arg Gly Pro Cys Gln Glu Ser Phe Tyr Asn Leu Gly Arg Gly
            260                 265                 270

Leu His Gln Leu Gly Leu Ile His Leu Ala Ile His Tyr Tyr Gln Lys
        275                 280                 285

Ala Leu Glu Leu Pro Pro Leu Val Val Glu Gly Ile Glu Leu Asp Gln
    290                 295                 300

Leu Asp Leu Arg Arg Asp Ile Ala Tyr Asn Leu Ser Leu Ile Tyr Gln
305                 310                 315                 320

Ser Ser Gly Asn Thr Gly Met Ala Gln Thr Leu Leu Tyr Thr Tyr Cys
```

325 330 335

Ser Ile

<210> 61
<211> 47
<212> PRT
<213> Homo sapiens

<400> 61
Met Leu Thr Val Lys Ile Leu Lys Cys Phe Leu Gly Trp Ala Val Val
1 5 10 15

Ala Gly Gly Leu Gly Arg Ser Gln Ala Arg Pro Ser Leu Leu Phe Asn
20 25 30

Arg Leu Ser Pro Ser Val Pro Gln Met Arg Ile Gln Gln Pro Trp
35 40 45

<210> 62
<211> 336
<212> PRT
<213> Homo sapiens

<400> 62
Met Ala Ala Ala Val Ala Ala Ala Leu Ala Arg Leu Leu Ala Ala Phe
1 5 10 15

Leu Leu Leu Ala Ala Gln Val Ala Cys Glu Tyr Gly Met Val His Val
20 25 30

Val Ser Gln Ala Gly Gly Pro Glu Gly Lys Asp Tyr Cys Ile Leu Tyr
35 40 45

Asn Pro Gln Trp Ala His Leu Pro His Asp Leu Ser Lys Ala Ser Phe
50 55 60

Leu Gln Leu Arg Asn Trp Thr Ala Ser Leu Leu Cys Ser Ala Ala Asp
65 70 75 80

Leu Pro Ala Arg Gly Phe Ser Asn Gln Ile Pro Leu Val Ala Arg Gly
85 90 95

Asn Cys Thr Phe Tyr Glu Lys Val Arg Leu Ala Gln Gly Ser Gly Ala
100 105 110

Arg Gly Leu Leu Ile Val Ser Arg Glu Arg Leu Val Pro Pro Gly Gly
115 120 125

Asn Lys Thr Gln Tyr Asp Glu Ile Gly Ile Pro Val Ala Leu Leu Ser
130 135 140

Tyr Lys Asp Met Leu Asp Ile Phe Thr Arg Phe Gly Arg Thr Val Arg
145 150 155 160

```
Ala Ala Leu Tyr Ala Pro Lys Glu Pro Val Leu Asp Tyr Asn Met Val
                165                 170                 175

Ile Ile Phe Ile Met Ala Val Gly Thr Val Ala Ile Gly Gly Tyr Trp
            180                 185                 190

Ala Gly Ser Arg Asp Val Lys Lys Arg Tyr Met Lys His Lys Arg Asp
        195                 200                 205

Asp Gly Pro Glu Lys Gln Glu Asp Glu Ala Val Asp Val Thr Pro Val
    210                 215                 220

Met Thr Cys Val Phe Val Val Met Cys Cys Ser Met Leu Val Leu Leu
225                 230                 235                 240

Tyr Tyr Phe Tyr Asp Leu Leu Val Cys Val Val Ile Gly Ile Phe Cys
                245                 250                 255

Leu Ala Ser Ala Thr Gly Leu Tyr Ser Cys Leu Ala Pro Cys Val Arg
            260                 265                 270

Arg Leu Pro Phe Gly Lys Cys Arg Ile Pro Asn Asn Ser Leu Pro Tyr
        275                 280                 285

Phe His Lys Arg Pro Gln Ala Arg Met Leu Leu Leu Ala Leu Phe Cys
    290                 295                 300

Val Ala Val Ser Val Val Trp Gly Val Phe Arg Asn Glu Asp Ser Gly
305                 310                 315                 320

Pro Gly Ser Ser Arg Met Pro Trp Ala Ser Pro Ser Ala Ser Thr Cys
                325                 330                 335
```

<210> 63
<211> 84
<212> PRT
<213> Homo sapiens

<400> 63

```
Met Lys Gly Trp Gly Trp Leu Ala Leu Leu Leu Gly Ala Leu Leu Gly
  1               5                  10                  15

Thr Ala Trp Ala Arg Arg Ser Gln Asp Leu His Cys Gly Ala Cys Arg
             20                  25                  30

Ala Leu Val Asp Glu Leu Glu Trp Glu Ile Ala Gln Val Asp Pro Lys
         35                  40                  45

Lys Thr Ile Gln Met Gly Ser Phe Arg Ile Asn Pro Asp Gly Ser Gln
     50                  55                  60

Ser Val Val Glu Val Thr Val Thr Val Pro Pro Asn Lys Val Ala His
 65                  70                  75                  80

Ser Gly Phe Gly
             84
```

<210> 64
<211> 62
<212> PRT
<213> Homo sapiens

<400> 64
Met Val Ala Val Thr Gly Gly Val Gly Val Ala Ala Ala Leu Cys Leu
1 5 10 15

Cys Ser Leu Leu Leu Trp Pro Thr Arg Leu Arg Arg Ser Arg Gly Gly
20 25 30

Glu His Arg Thr Pro Ser Glu Gly Glu Gly Ile Ser Thr Ala Pro Pro
35 40 45

Pro Cys Trp Asn Glu Thr Gln Pro Gln Gly Gly Ala Lys Leu
50 55 60

<210> 65
<211> 49
<212> PRT
<213> Homo sapiens

<400> 65
Met Arg Leu Cys Ser Phe Thr Lys Val Pro Met Asn Leu Phe Leu Asn
1 5 10 15

Val Ile Leu Leu Lys Phe Tyr Asn Phe Leu Phe Ser Leu Ile Leu Gly
20 25 30

Lys Ser Cys Leu Ala Ser Leu Gly Leu Cys Lys Asn Asn Lys Cys Leu
35 40 45

Ser
49

<210> 66
<211> 401
<212> PRT
<213> Homo sapiens

<400> 66
Met Val Ala Leu Arg Gly Ala Ser Ala Leu Leu Val Leu Phe Leu Ala
1 5 10 15

Ala Phe Leu Pro Pro Pro Gln Cys Thr Gln Asp Pro Ala Met Val His
20 25 30

Tyr Ile Tyr Gln Arg Phe Arg Val Leu Glu Gln Gly Leu Glu Lys Cys
35 40 45

Thr Gln Ala Thr Arg Ala Tyr Ile Gln Glu Phe Gln Glu Phe Ser Lys
50 55 60

Asn Ile Ser Val Met Leu Gly Arg Cys Gln Thr Tyr Thr Ser Glu Tyr
65 70 75 80

```
Lys Ser Ala Val Gly Asn Leu Ala Leu Arg Val Glu Arg Ala Gln Arg
                 85                  90                  95

Glu Ile Asp Tyr Ile Gln Tyr Leu Arg Glu Ala Asp Glu Cys Ile Glu
            100                 105                 110

Ser Glu Asp Lys Thr Leu Ala Glu Met Leu Leu Gln Glu Ala Glu Glu
        115                 120                 125

Glu Lys Lys Ile Arg Thr Leu Leu Asn Ala Ser Cys Asp Asn Met Leu
    130                 135                 140

Met Gly Ile Lys Ser Leu Lys Ile Val Lys Lys Met Met Asp Thr His
145                 150                 155                 160

Gly Ser Trp Met Lys Asp Ala Val Tyr Asn Ser Pro Lys Val Tyr Leu
                165                 170                 175

Leu Ile Gly Ser Arg Asn Asn Thr Val Trp Glu Phe Ala Asn Ile Arg
            180                 185                 190

Ala Phe Met Glu Asp Asn Thr Lys Pro Ala Pro Arg Lys Gln Ile Leu
        195                 200                 205

Thr Leu Ser Trp Gln Gly Thr Gly Gln Val Ile Tyr Lys Gly Phe Leu
    210                 215                 220

Phe Phe His Asn Gln Ala Thr Ser Asn Glu Ile Ile Lys Tyr Asn Leu
225                 230                 235                 240

Gln Lys Arg Thr Val Glu Asp Arg Met Leu Leu Pro Gly Gly Val Gly
                245                 250                 255

Arg Ala Leu Val Tyr Gln His Ser Pro Ser Thr Tyr Ile Asp Leu Ala
            260                 265                 270

Val Asp Glu His Gly Leu Trp Ala Ile His Ser Gly Pro Gly Thr His
        275                 280                 285

Ser His Leu Val Leu Thr Lys Ile Glu Pro Gly Thr Leu Gly Val Glu
    290                 295                 300

His Ser Trp Asp Thr Pro Cys Arg Ser Gln Asp Ala Glu Ala Ser Phe
305                 310                 315                 320

Leu Leu Cys Gly Val Leu Tyr Val Val Tyr Ser Thr Gly Gly Gln Gly
                325                 330                 335

Pro His Arg Ile Thr Cys Ile Tyr Asp Pro Leu Gly Thr Ile Ser Glu
            340                 345                 350

Glu Asp Leu Pro Asn Leu Phe Phe Pro Lys Arg Pro Arg Ser His Ser
        355                 360                 365

Met Ile His Tyr Asn Pro Arg Asp Lys Gln Leu Tyr Ala Trp Asn Glu
    370                 375                 380

Gly Asn Gln Ile Ile Tyr Lys Leu Gln Thr Lys Arg Lys Leu Thr Leu
385                 390                 395                 400
```

Lys

<210> 67
<211> 57
<212> PRT
<213> Homo sapiens

<400> 67
Met Val Ser Leu Leu Ser Ser Tyr Leu Leu Leu Leu Glu Leu Leu Ser
1 5 10 15

Lys Arg Ser Leu Phe Leu Gln Trp Tyr Leu Phe Phe Gly Leu Gln Cys
20 25 30

Cys Ser Ser Phe Leu Cys Arg Lys Asn Glu Ser Gln Cys Phe Thr Arg
35 40 45

Leu Lys Glu Arg Ser Ala Gly Ser Val
50 55

<210> 68
<211> 72
<212> PRT
<213> Homo sapiens

<400> 68
Met Leu Arg Pro Ala Leu Pro Trp Leu Tyr Leu Gly Leu Cys Ser Leu
1 5 10 15

Leu Val Gly Glu Ala Glu Ala Pro Ser Pro Val Asp Pro Leu Glu Arg
20 25 30

Ser Arg Pro Tyr Ala Val Leu Arg Gly Gln Asn Leu Val Leu Met Gly
35 40 45

Thr Ile Phe Ser Ile Leu Leu Val Thr Val Ile Leu Met Ala Phe Cys
50 55 60

Val Tyr Lys Pro Ile Arg Arg Arg
65 70

<210> 69
<211> 50
<212> PRT
<213> Homo sapiens

<400> 69
Met Leu Thr Tyr Leu Pro Arg Trp Cys Phe Leu Ser Leu Pro Pro Pro
1 5 10 15

Cys Cys Gly Ala Ala Ser Cys Thr Met Met His Ile Gln Ile Ile Leu
20 25 30

Asn Thr His Ile Leu Ile Glu Arg Phe Leu Gly Phe Leu Leu Asn Gln
35 40 45

Val Tyr
50

<210> 70
<211> 181
<212> PRT
<213> Homo sapiens

<400> 70
Met Thr Ser Arg Arg Ser Ser Thr Leu Ser Met Thr Ser Ser Leu Leu
1 5 10 15

Ser Leu Gly Cys Ala Leu Thr Ser Ala Phe Pro Ala Ser Thr Met Ser
20 25 30

Trp Val Pro Leu Leu Gln Met Leu Asp Gln Ser Pro Arg Arg Val Met
35 40 45

Arg Lys Ser Val Ser Gln Leu Cys Pro Leu Leu Arg Pro His Pro Pro
50 55 60

Leu Ser Ser Lys His Pro Leu Val Leu Pro Leu Gln Leu Pro Pro Thr
65 70 75 80

Phe Leu His Leu Leu Pro Gly Pro Gly Cys Pro Gly Gln Thr Val Ala
85 90 95

Tyr Trp Leu Leu Glu Phe Leu Ser Arg Ala Thr Leu Lys Leu Tyr Pro
100 105 110

Gly Asp Arg Pro Leu Trp Leu Gln Pro Thr Arg Leu Asn Phe Lys Asp
115 120 125

His Trp Thr Ile Phe Ser Val Ala Ser Ala Ala Leu Phe Cys Val His
130 135 140

Arg Met Ala Thr Asp Arg His Ala Ser Phe Pro Thr His Trp Lys Ala
145 150 155 160

His Arg Gln Gly Glu Arg Gly His Arg Arg Cys Gln His Cys Arg Tyr
165 170 175

Ser Lys Asp Leu Lys
180

<210> 71
<211> 48
<212> PRT
<213> Homo sapiens

<400> 71
Met His Met Gly Leu Thr Thr Cys Lys Cys His Trp Lys Met Ala Tyr
1 5 10 15

Leu Arg Phe Leu Ile Leu Trp Ser Phe Pro Leu Ser Ser Ala Val Ser
20 25 30

```
Gly Ala Lys Arg Val Thr Asp Leu Leu Asn Gly Lys His Trp Lys Pro
         35                  40                  45
```

<210> 72
<211> 53
<212> PRT
<213> Homo sapiens

<400> 72

```
Met Val Gln Phe Glu Val Ile Phe Leu Leu Phe Gly Leu Cys Phe Ser
  1               5                  10                  15

Ser Ser Ser Ser Arg Leu Val Gly Ser Gln Val Glu Asn Phe Ser Pro
             20                  25                  30

Thr Pro Cys Ile Phe Gln Ala Phe Arg Cys Ser Ser Leu Ala Ile Ile
         35                  40                  45

Ser Met Ser Leu Ser
     50
```

<210> 73
<211> 74
<212> PRT
<213> Homo sapiens

<400> 73

```
Met Ser Val Val Pro Val Met Ile Pro Phe Leu Leu Leu Leu Phe Phe
  1               5                  10                  15

Phe Ser Leu Ser Ser Thr His His Pro His Leu Leu Tyr Phe Ser Ile
             20                  25                  30

Phe Ile Phe Ser Gly Ser Leu Leu Val Arg Ile Leu Ser Cys Arg Lys
         35                  40                  45

Glu Ser Ser His Gln Val Leu Leu Ser Arg Lys Cys Phe Ile Lys Gly
     50                  55                  60

His Arg Gln His Arg Gln Leu Thr Lys Val
 65                  70              74
```

<210> 74
<211> 64
<212> PRT
<213> Homo sapiens

<400> 74

```
Met Pro Leu Phe Leu Phe Val Ala His Leu Ile Ser Leu Leu Leu Ala
  1               5                  10                  15

Phe Arg Arg Pro Pro Ala Ser Gln Ile Thr Pro Arg Ala Trp Thr Thr
             20                  25                  30

Glu Ile Ala Ser Cys Glu Ser Val Glu Met Val Lys Ala Leu Ser Ser
```

```
         35                  40                  45

Leu Arg Ser Arg Ala Gln Val Asn Ala Asp Phe Pro Gly His Leu Cys
     50                  55                  60
```

<210> 75
<211> 43
<212> PRT
<213> Homo sapiens

<400> 75

```
Met Ser Ser Val Lys Cys Pro Tyr Met Trp Cys Phe Trp Ala Phe Pro
  1               5                  10                  15

Leu Phe Gln Leu Ser Val Phe Ile Pro Val Ser Lys Ser His Ser Ile
             20                  25                  30

Asn Tyr Tyr Asn Phe Ile Val Ser Leu Asn Ile
         35                  40
```

<210> 76
<211> 52
<212> PRT
<213> Homo sapiens

<400> 76

```
Met Ile Leu Phe Met Cys Phe Leu Val Tyr Cys Leu Ser Ser Val Glu
  1               5                  10                  15

Trp Lys Ser His Arg Tyr Phe Val Phe Phe Ser Pro Cys Pro Phe Leu
             20                  25                  30

Tyr Pro Gln Leu Leu Glu His Ser Leu Glu His Ser Lys Cys Ser Val
         35                  40                  45

Leu Phe Met Glu
     50
```

<210> 77
<211> 319
<212> PRT
<213> Homo sapiens

<400> 77

```
Met Ser Trp Cys Cys Leu Trp Leu Cys Leu Ser Ser Val Gly Arg Thr
  1               5                  10                  15

Gly Ser Ala Gly Pro Ser Leu Pro Phe Ser Glu Leu Cys Ser Leu Gly
             20                  25                  30

Leu Leu Arg Leu Arg Pro Val Phe Ser Pro Leu His Ser Gly Pro Gly
         35                  40                  45

Lys Pro Ala Gln Phe Leu Ala Gly Glu Ala Glu Glu Val Asn Ala Phe
     50                  55                  60
```

```
Ala Leu Gly Phe Leu Ser Thr Ser Ser Gly Val Ser Gly Glu Asp Glu
 65                  70                  75                  80

Val Glu Pro Leu His Asp Gly Val Glu Glu Ala Glu Lys Lys Met Glu
                 85                  90                  95

Glu Glu Gly Val Ser Val Ser Glu Met Glu Ala Thr Gly Ala Gln Gly
            100                 105                 110

Pro Ser Arg Val Glu Glu Ala Glu Gly His Thr Glu Val Thr Glu Ala
        115                 120                 125

Glu Gly Ser Gln Gly Thr Ala Glu Ala Asp Gly Pro Gly Ala Ser Ser
    130                 135                 140

Gly Asp Glu Asp Ala Ser Gly Arg Ala Ala Ser Pro Glu Ser Ala Ser
145                 150                 155                 160

Ser Thr Pro Glu Ser Leu Gln Ala Arg Arg His His Gln Phe Leu Glu
                165                 170                 175

Pro Ala Pro Ala Pro Gly Ala Ala Val Leu Ser Ser Glu Pro Ala Glu
            180                 185                 190

Pro Leu Leu Val Arg His Pro Pro Arg Pro Arg Thr Thr Gly Pro Arg
        195                 200                 205

Pro Arg Gln Asp Pro His Lys Ala Gly Leu Ser His Tyr Val Lys Leu
    210                 215                 220

Phe Ser Phe Tyr Ala Lys Met Pro Met Glu Arg Lys Ala Leu Glu Met
225                 230                 235                 240

Val Glu Lys Cys Leu Asp Lys Tyr Phe Gln His Leu Cys Asp Asp Leu
                245                 250                 255

Glu Val Phe Ala Ala His Ala Gly Arg Lys Thr Val Lys Pro Glu Asp
            260                 265                 270

Leu Glu Leu Leu Met Arg Arg Gln Gly Leu Val Thr Asp Gln Val Ser
        275                 280                 285

Leu His Val Leu Val Glu Arg His Leu Pro Leu Glu Tyr Arg Gln Leu
    290                 295                 300

Leu Ile Pro Cys Ala Tyr Ser Gly Asn Ser Val Phe Pro Ala Gln
305                 310                 315             319
```

<210> 78
<211> 171
<212> PRT
<213> Homo sapiens

<400> 78

```
Met Ser Leu Pro Ile Pro Trp Leu Ser Leu Pro Pro Cys Pro Ile Leu
  1               5                  10                  15
```

```
Gly Gln Pro Ala Gly Leu Leu Leu Trp Leu Phe Arg Pro Phe Ser Gln
             20                  25                  30

Cys Cys Gln Cys Pro Trp Glu Gly Arg Ala Ser Leu Arg His Pro Asn
         35                  40                  45

Gly Pro Ser Gly Cys Arg Glu Ala Glu Ala Trp Pro Gln Arg Ser Leu
     50                  55                  60

Leu Arg Gln Gln Leu Gln Gln Ala His Pro Leu Pro Thr Leu Pro Thr
 65                  70                  75                  80

Pro Glu Arg Leu Pro Glu Gln Met Leu Phe Pro Ser Ser Ser Ser Lys
                 85                  90                  95

Pro Phe Ser Leu Leu Ser Leu Thr Ile Trp Ala Arg Leu Val Gly Arg
            100                 105                 110

Leu Thr Asn Arg Ile Cys Pro Val Pro Pro Gly Ser Val Ala Ser Ser
        115                 120                 125

Met Ser Leu Gln Ala Gly Arg Cys Gly Asn Pro Val Val Leu Pro Gln
    130                 135                 140

Pro Met Pro Pro Gly Leu Leu Cys Met Asn Glu Cys Ser Leu Val Pro
145                 150                 155                 160

Gly Leu Gly Arg Gly Gln Val Asn Ser Arg Val
                165                 170
```

<210> 79
<211> 60
<212> PRT
<213> Homo sapiens

<400> 79

```
Met Val Ser Arg Ser Thr Ser Leu Thr Leu Ile Val Phe Leu Phe His
  1               5                  10                  15

Arg Leu Ser Lys Ala Pro Gly Lys Met Val Glu Asn Ser Pro Ser Pro
             20                  25                  30

Leu Pro Glu Arg Ala Ile Tyr Gly Phe Val Leu Phe Leu Ser Ser Gln
         35                  40                  45

Phe Gly Phe Lys Asn Leu Lys Gly Ser Arg Val Cys
     50                  55                  60
```

<210> 80
<211> 100
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (20)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> MISC_FEATURE
<222> (37)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 80
Met Leu Pro Ser Ala Trp Gly Pro Leu Gln Val Ala Ser Phe Phe Leu
1 5 10 15

Leu Ser Phe Xaa Phe Cys Phe Leu Ser Ser Ser Pro His Leu Gly Arg
20 25 30

Gln Glu Thr His Xaa Val Val Leu Glu Asp Asp Glu Gly Ala Pro Cys
35 40 45

Pro Ala Glu Asp Glu Leu Ala Leu Gln Asp Asn Gly Phe Leu Ser Lys
50 55 60

Asn Glu Val Leu Arg Thr Arg Cys Leu Gly Ser Arg Ser Gly Ser Ala
65 70 75 80

Ser Ala Thr Pro Pro Thr Thr Ser Gly Thr Ala Arg Ala Ala Arg Pro
85 90 95

Pro Ser Gln Cys
100

<210> 81
<211> 97
<212> PRT
<213> Homo sapiens

<400> 81
Met Ala Leu Leu Ala Leu Ala Ser Ala Val Pro Ser Ala Leu Leu Ala
1 5 10 15

Leu Ala Val Phe Arg Val Pro Ala Trp Ala Cys Leu Leu Cys Phe Thr
20 25 30

Thr Tyr Ser Glu Arg Leu Arg Ile Cys Gln Met Phe Val Gly Met Arg
35 40 45

Ser Pro Ser Leu Lys Ser Val Arg Arg Pro Ser Arg Pro Pro Ser Arg
50 55 60

Ala Ser Leu Thr Pro Lys Ser Val Arg Arg Pro Ser Thr Leu His Gln
65 70 75 80

Cys Pro Gly Glu Gly Ala Glu Gly Gly Gln Glu Arg Pro Arg Gly Ser
85 90 95

Gly

<210> 82
<211> 52
<212> PRT

<213> Homo sapiens

<400> 82
Met Trp Leu Asn Phe Ser Asp Val His Thr Tyr Leu Ser Ser Ile Ala
1 5 10 15

Leu Leu Cys Phe Cys Leu Ser Gly Val Leu Cys Cys Ile Cys Asn Asn
20 25 30

Ser Val Phe His Ile Gln Gln Tyr Ile Leu Ile Ile Ile Thr Phe Pro
35 40 45

Leu Val Val Ile
50

<210> 83
<211> 40
<212> PRT
<213> Homo sapiens

<400> 83
Met Ser His Ala Ser Arg Lys Thr Lys His Phe Pro Pro Leu Leu Gln
1 5 10 15

Asn Pro Phe Leu Met Leu Thr Leu Leu Thr Met Ala Val Ser Ala Gln
20 25 30

Pro Leu Pro Phe Ser Arg Pro Arg
35 40

<210> 84
<211> 132
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (122)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 84
Met Ala Ala Ala Val Ala Ala Ala Leu Ala Arg Leu Leu Ala Ala Phe
1 5 10 15

Leu Leu Leu Ala Ala Gln Val Ala Cys Glu Tyr Gly Met Val His Val
20 25 30

Val Ser Gln Ala Gly Gly Pro Glu Gly Lys Asp Tyr Cys Ile Leu Tyr
35 40 45

Asn Pro Gln Trp Ala His Leu Pro His Asp Leu Ser Lys Ala Ser Phe
50 55 60

Leu Gln Leu Arg Asn Trp Thr Ala Ser Leu Leu Cys Ser Ala Ala Asp
65 70 75 80

Leu Pro Ala Arg Gly Phe Ser Asn Gln Ile Pro Leu Val Ala Arg Gly
85 90 95

```
Asn Cys Thr Phe Tyr Glu Lys Val Arg Leu Ala Gln Gly Ser Gly His
            100                 105                 110

Ala Gly Cys Ser Ser Ser Ala Gly Arg Xaa Trp Ser Pro Arg Gly Val
        115                 120                 125

Ile Arg Arg Ile
    130
```

<210> 85
<211> 11
<212> PRT
<213> Homo sapiens

<400> 85
```
His Ser Ser Leu Pro His Phe Ser Ser Arg Ile
  1               5                  10
```

<210> 86
<211> 22
<212> PRT
<213> Homo sapiens

<400> 86
```
Arg Asp Ser Asn Gly Arg Gly Asp Ser Ser Leu Leu Lys Phe Val Cys
  1               5                  10                  15

Pro Val Pro Leu Lys Lys
             20
```

<210> 87
<211> 12
<212> PRT
<213> Homo sapiens

<400> 87
```
Ile Pro Glu Tyr Thr Phe Arg Arg Arg Trp Phe His
  1               5                  10
```

<210> 88
<211> 17
<212> PRT
<213> Homo sapiens

<400> 88
```
Leu Cys Val Ser Met Lys Ile Glu Trp Gly Arg Glu Ser Cys Glu Lys
  1               5                  10                  15

Lys
```

<210> 89
<211> 25
<212> PRT

<213> Homo sapiens

<400> 89
Arg Leu Lys Thr Thr Arg Ala Tyr Ser Ser Gln Phe Trp Arg Pro Glu
1 5 10 15

Val Gln Asn Gln Gly Val Arg Lys Val
20 25

<210> 90
<211> 165
<212> PRT
<213> Homo sapiens

<400> 90
Leu Thr Leu Cys Leu Pro Arg Ser Leu Tyr Ala Leu Pro Gln Cys Pro
1 5 10 15

Gly Pro His Val His Pro Cys Pro Ala Leu Leu Trp Asp Arg Ala Gly
20 25 30

Leu Pro Leu Pro Leu Pro Gly Cys Ile His Gly Arg Ser Gln Val Pro
35 40 45

Trp His Glu Leu His Ser Pro Ala Ala Phe Asn Gln Gly Met Met Gly
50 55 60

Met Cys Thr Tyr Pro Thr Pro Pro Leu Gly Arg Val Met Leu Arg Cys
65 70 75 80

Gly Phe Leu Thr Val Pro Arg Leu Ser Gln Glu Ala Trp Val Trp Val
85 90 95

Pro Thr Val Gly Ala Gly Val Ile Ser Tyr Leu Arg Arg Pro Pro Phe
100 105 110

Leu Pro Val Leu Cys Ala Pro Thr Pro Thr Leu Glu Leu Pro Arg Phe
115 120 125

Ser Val Phe Val Lys Glu Leu Thr Leu Cys Cys Leu Pro Leu Ser Gln
130 135 140

Cys Pro Cys His Ser Cys Glu Pro Ala Ala Gly Glu Val Gly Ala Asp
145 150 155 160

Leu Cys Val Ala Gly
165

<210> 91
<211> 41
<212> PRT
<213> Homo sapiens

<400> 91
Leu Thr Leu Cys Leu Pro Arg Ser Leu Tyr Ala Leu Pro Gln Cys Pro
1 5 10 15

Gly Pro His Val His Pro Cys Pro Ala Leu Leu Trp Asp Arg Ala Gly

```
            20                  25                  30

Leu Pro Leu Pro Leu Pro Gly Cys Ile
         35                  40


<210> 92
<211> 38
<212> PRT
<213> Homo sapiens

<400> 92
His Gly Arg Ser Gln Val Pro Trp His Glu Leu His Ser Pro Ala Ala
  1               5                  10                  15

Phe Asn Gln Gly Met Met Gly Met Cys Thr Tyr Pro Thr Pro Pro Leu
            20                  25                  30

Gly Arg Val Met Leu Arg
         35


<210> 93
<211> 41
<212> PRT
<213> Homo sapiens

<400> 93
Cys Gly Phe Leu Thr Val Pro Arg Leu Ser Gln Glu Ala Trp Val Trp
  1               5                  10                  15

Val Pro Thr Val Gly Ala Gly Val Ile Ser Tyr Leu Arg Arg Pro Pro
            20                  25                  30

Phe Leu Pro Val Leu Cys Ala Pro Thr
         35                  40


<210> 94
<211> 45
<212> PRT
<213> Homo sapiens

<400> 94
Pro Thr Leu Glu Leu Pro Arg Phe Ser Val Phe Val Lys Glu Leu Thr
  1               5                  10                  15

Leu Cys Cys Leu Pro Leu Ser Gln Cys Pro Cys His Ser Cys Glu Pro
            20                  25                  30

Ala Ala Gly Glu Val Gly Ala Asp Leu Cys Val Ala Gly
         35                  40                  45


<210> 95
<211> 38
<212> PRT
<213> Homo sapiens

<400> 95
```

```
Ile Arg His Glu Thr Phe Arg Val Arg Gly Cys Ser Ile Ser Arg Ala
  1               5                  10                  15

Leu Ser Pro Phe Pro Leu Pro Phe Pro His Pro Gly Arg Ser Gly Trp
             20                  25                  30

Ser Gly Pro Glu Ala Lys
         35
```

<210> 96
<211> 145
<212> PRT
<213> Homo sapiens

<400> 96

```
Pro Asp Ser Arg Pro Glu Ala Arg Gly Asp His Val Val Arg Pro Ser
  1               5                  10                  15

Arg Gly Leu Arg Val Thr Gly Ala Thr Arg Ser Ile Met Gly Pro Trp
             20                  25                  30

Gly Glu Pro Glu Leu Leu Val Trp Arg Pro Glu Ala Val Ala Ser Glu
         35                  40                  45

Pro Pro Val Pro Val Gly Leu Glu Val Lys Leu Gly Ala Leu Val Leu
     50                  55                  60

Leu Leu Val Leu Thr Leu Leu Cys Ser Leu Val Pro Ile Cys Val Leu
 65                  70                  75                  80

Arg Arg Pro Gly Ala Asn His Glu Gly Ser Ala Ser Arg Gln Lys Ala
                 85                  90                  95

Leu Ser Leu Val Ser Cys Phe Ala Gly Gly Val Phe Leu Ala Thr Cys
            100                 105                 110

Leu Leu Asp Leu Leu Pro Asp Tyr Leu Ala Ala Ile Asp Glu Ala Leu
        115                 120                 125

Ala Ala Leu His Val Thr Leu Gln Phe Pro Leu Gln Glu Phe Ile Leu
    130                 135                 140

Ala
145
```

<210> 97
<211> 35
<212> PRT
<213> Homo sapiens

<400> 97

```
Pro Asp Ser Arg Pro Glu Ala Arg Gly Asp His Val Val Arg Pro Ser
  1               5                  10                  15

Arg Gly Leu Arg Val Thr Gly Ala Thr Arg Ser Ile Met Gly Pro Trp
             20                  25                  30

Gly Glu Pro
```

35

<210> 98
<211> 37
<212> PRT
<213> Homo sapiens

<400> 98
Glu Leu Leu Val Trp Arg Pro Glu Ala Val Ala Ser Glu Pro Pro Val
1 5 10 15

Pro Val Gly Leu Glu Val Lys Leu Gly Ala Leu Val Leu Leu Leu Val
20 25 30

Leu Thr Leu Leu Cys
35

<210> 99
<211> 36
<212> PRT
<213> Homo sapiens

<400> 99
Ser Leu Val Pro Ile Cys Val Leu Arg Arg Pro Gly Ala Asn His Glu
1 5 10 15

Gly Ser Ala Ser Arg Gln Lys Ala Leu Ser Leu Val Ser Cys Phe Ala
20 25 30

Gly Gly Val Phe
35

<210> 100
<211> 37
<212> PRT
<213> Homo sapiens

<400> 100
Leu Ala Thr Cys Leu Leu Asp Leu Leu Pro Asp Tyr Leu Ala Ala Ile
1 5 10 15

Asp Glu Ala Leu Ala Ala Leu His Val Thr Leu Gln Phe Pro Leu Gln
20 25 30

Glu Phe Ile Leu Ala
35

<210> 101
<211> 28
<212> PRT
<213> Homo sapiens

<400> 101
Lys Tyr Ile Leu Ser Ser Pro Leu Leu Asp Ser Leu Ala Glu His Lys
1 5 10 15

```
Asn Leu Val Trp Lys Ser Phe Leu Pro Arg Asn Phe
             20                  25


<210> 102
<211> 70
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (53)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 102
Tyr Gly Lys Val Val Asp Leu Ala Pro Leu His Leu Asp Ala Arg Ile
  1               5                  10                  15

Ser Leu Ser Thr Leu Gln Gln Gln Leu Gly Gln Pro Glu Lys Ala Leu
             20                  25                  30

Glu Ala Leu Glu Pro Met Tyr Asp Pro Asp Thr Leu Ala Gln Asp Ala
         35                  40                  45

Asn Ala Ala Gln Xaa Glu Leu Lys Leu Leu Leu His Arg Ser Thr Leu
     50                  55                  60

Leu Phe Ser Gln Gly Lys
 65                  70


<210> 103
<211> 96
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (58)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 103
Asp Phe Met Glu Thr Phe Pro Asp Phe Cys Leu Pro Leu Ala Pro His
  1               5                  10                  15

Tyr Leu Gly Lys Ala Ala Leu Trp Ala Met Cys Pro Gly Arg Ala Trp
             20                  25                  30

Ala Gly Cys Gly Pro Val Leu Arg Thr Ser His Leu Gly Pro His Ser
         35                  40                  45

Ala Leu Pro Ser Trp Cys Asn Ile Cys Xaa Gln Ala Ile Val Gly Ala
     50                  55                  60

Gly Arg Gln Arg Gly Leu Ser Glu Asp Pro Thr Cys Ala Ser His Trp
 65                  70                  75                  80

Asp Thr Lys Thr Gly Leu Val Pro Ser Cys Gly Ala Gly Lys Gly Ile
                 85                  90                  95
```

<210> 104
<211> 44
<212> PRT
<213> Homo sapiens

<400> 104
Asp Phe Met Glu Thr Phe Pro Asp Phe Cys Leu Pro Leu Ala Pro His
1 5 10 15

Tyr Leu Gly Lys Ala Ala Leu Trp Ala Met Cys Pro Gly Arg Ala Trp
20 25 30

Ala Gly Cys Gly Pro Val Leu Arg Thr Ser His Leu
35 40

<210> 105
<211> 52
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (14)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 105
Gly Pro His Ser Ala Leu Pro Ser Trp Cys Asn Ile Cys Xaa Gln Ala
1 5 10 15

Ile Val Gly Ala Gly Arg Gln Arg Gly Leu Ser Glu Asp Pro Thr Cys
20 25 30

Ala Ser His Trp Asp Thr Lys Thr Gly Leu Val Pro Ser Cys Gly Ala
35 40 45

Gly Lys Gly Ile
50

<210> 106
<211> 280
<212> PRT
<213> Homo sapiens

<400> 106
Arg Leu Pro Gln Arg Gly Gln Trp Ala Trp Val Leu Gln Asp Ala Leu
1 5 10 15

Gly Ile Ala Phe Cys Leu Tyr Met Leu Lys Thr Ile Arg Leu Pro Thr
20 25 30

Phe Lys Ala Cys Thr Leu Leu Leu Leu Val Leu Phe Leu Tyr Asp Ile
35 40 45

Phe Phe Val Phe Ile Thr Pro Phe Leu Thr Lys Ser Gly Ser Ser Ile

```
     50                  55                  60

Met Val Glu Val Ala Thr Gly Pro Ser Asp Ser Ala Thr Arg Glu Lys
 65                  70                  75                  80

Leu Pro Met Val Leu Lys Val Pro Arg Leu Asn Ser Ser Pro Leu Ala
                 85                  90                  95

Leu Cys Asp Arg Pro Phe Ser Leu Leu Gly Phe Gly Asp Ile Leu Val
            100                 105                 110

Pro Gly Leu Leu Val Ala Tyr Cys His Arg Phe Asp Ile Gln Val Gln
        115                 120                 125

Ser Ser Arg Val Tyr Phe Val Ala Cys Thr Ile Ala Tyr Gly Val Gly
    130                 135                 140

Leu Leu Val Thr Phe Val Ala Leu Ala Leu Met Gln Arg Gly Gln Pro
145                 150                 155                 160

Ala Leu Leu Tyr Leu Val Pro Cys Thr Leu Val Thr Ser Cys Ala Val
                165                 170                 175

Ala Leu Trp Arg Arg Glu Leu Gly Val Phe Trp Thr Gly Ser Gly Phe
            180                 185                 190

Ala Lys Val Leu Pro Pro Ser Pro Trp Ala Pro Ala Pro Ala Asp Gly
        195                 200                 205

Pro Gln Pro Pro Lys Asp Ser Ala Thr Pro Leu Ser Pro Gln Pro Pro
    210                 215                 220

Ser Glu Glu Pro Ala Thr Ser Pro Trp Pro Ala Glu Gln Ser Pro Lys
225                 230                 235                 240

Ser Arg Thr Ser Glu Glu Met Gly Ala Gly Ala Pro Met Arg Glu Pro
                245                 250                 255

Gly Ser Pro Ala Glu Ser Glu Gly Arg Asp Gln Ala Gln Pro Ser Pro
            260                 265                 270

Val Thr Gln Pro Gly Ala Ser Ala
        275                 280


<210> 107
<211> 43
<212> PRT
<213> Homo sapiens

<400> 107
Arg Leu Pro Gln Arg Gly Gln Trp Ala Trp Val Leu Gln Asp Ala Leu
  1               5                  10                  15

Gly Ile Ala Phe Cys Leu Tyr Met Leu Lys Thr Ile Arg Leu Pro Thr
             20                  25                  30

Phe Lys Ala Cys Thr Leu Leu Leu Leu Val Leu
         35                  40
```

<210> 108
<211> 44
<212> PRT
<213> Homo sapiens

<400> 108
Phe Leu Tyr Asp Ile Phe Phe Val Phe Ile Thr Pro Phe Leu Thr Lys
1 5 10 15

Ser Gly Ser Ser Ile Met Val Glu Val Ala Thr Gly Pro Ser Asp Ser
20 25 30

Ala Thr Arg Glu Lys Leu Pro Met Val Leu Lys Val
35 40

<210> 109
<211> 44
<212> PRT
<213> Homo sapiens

<400> 109
Pro Arg Leu Asn Ser Ser Pro Leu Ala Leu Cys Asp Arg Pro Phe Ser
1 5 10 15

Leu Leu Gly Phe Gly Asp Ile Leu Val Pro Gly Leu Leu Val Ala Tyr
20 25 30

Cys His Arg Phe Asp Ile Gln Val Gln Ser Ser Arg
35 40

<210> 110
<211> 43
<212> PRT
<213> Homo sapiens

<400> 110
Val Tyr Phe Val Ala Cys Thr Ile Ala Tyr Gly Val Gly Leu Leu Val
1 5 10 15

Thr Phe Val Ala Leu Ala Leu Met Gln Arg Gly Gln Pro Ala Leu Leu
20 25 30

Tyr Leu Val Pro Cys Thr Leu Val Thr Ser Cys
35 40

<210> 111
<211> 40
<212> PRT
<213> Homo sapiens

<400> 111
Ala Val Ala Leu Trp Arg Arg Glu Leu Gly Val Phe Trp Thr Gly Ser
1 5 10 15

Gly Phe Ala Lys Val Leu Pro Pro Ser Pro Trp Ala Pro Ala Pro Ala
20 25 30

Asp Gly Pro Gln Pro Pro Lys Asp
35 40

<210> 112
<211> 41
<212> PRT
<213> Homo sapiens

<400> 112
Ser Ala Thr Pro Leu Ser Pro Gln Pro Pro Ser Glu Glu Pro Ala Thr
1 5 10 15

Ser Pro Trp Pro Ala Glu Gln Ser Pro Lys Ser Arg Thr Ser Glu Glu
20 25 30

Met Gly Ala Gly Ala Pro Met Arg Glu
35 40

<210> 113
<211> 25
<212> PRT
<213> Homo sapiens

<400> 113
Pro Gly Ser Pro Ala Glu Ser Glu Gly Arg Asp Gln Ala Gln Pro Ser
1 5 10 15

Pro Val Thr Gln Pro Gly Ala Ser Ala
20 25

<210> 114
<211> 26
<212> PRT
<213> Homo sapiens

<400> 114
Glu Ser Ser Gly Leu Pro Ala Leu Gly Pro Arg Arg Arg Pro Trp Glu
1 5 10 15

Gln Arg Trp Ser Asp Pro Ile Thr Leu Lys
20 25

<210> 115
<211> 61
<212> PRT
<213> Homo sapiens

<400> 115
Leu Thr Leu Ala Leu Asp Glu Ile Arg Leu Leu Lys Lys Asp Leu Gly
1 5 10 15

Leu Ile Glu Met Lys Lys Thr Asp Ser Glu Lys Arg Phe Gly Ser Val
20 25 30

Ser Phe Gly Arg Ser Cys Arg Leu Ile Pro His Ala Leu Ala Ser Trp

```
         35                  40                  45

Leu Gln Thr Leu Ile Leu Cys Phe Cys Cys Arg Ile Cys
     50                  55                  60


<210> 116
<211> 32
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (27)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 116
Gly Arg Pro Thr Arg Pro Val Met Ala Ile Gln Ser Leu His Pro Cys
  1               5                  10                  15

Pro Ser Glu Leu Cys Cys Arg Ala Cys Val Xaa Phe Tyr His Trp Ala
             20                  25                  30




<210> 117
<211> 29
<212> PRT
<213> Homo sapiens

<400> 117
Asn Ser Lys Asn Thr Arg Asn Glu Arg Ser Phe Leu Lys Leu Phe Arg
  1               5                  10                  15

Asn Ile His Asp Ile Pro Leu Thr Val Leu Glu Asn Lys
             20                  25


<210> 118
<211> 20
<212> PRT
<213> Homo sapiens

<400> 118
Pro Arg Val Arg Gly Glu Gly Asn Arg Cys Trp Thr Gln Gly Ala Leu
  1               5                  10                  15

Cys His Arg Met
             20


<210> 119
<211> 421
<212> PRT
<213> Homo sapiens

<400> 119
Pro Arg Val Arg Gly Glu Gly Asn Arg Cys Trp Thr Gln Gly Ala Leu
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  1               5                  10                  15

Cys His Arg Met Met Val Ala Leu Arg Gly Ala Ser Ala Leu Leu Val
             20                  25                  30

Leu Phe Leu Ala Ala Phe Leu Pro Pro Pro Gln Cys Thr Gln Asp Pro
         35                  40                  45

Ala Met Val His Tyr Ile Tyr Gln Arg Phe Arg Val Leu Glu Gln Gly
     50                  55                  60

Leu Glu Lys Cys Thr Gln Ala Thr Arg Ala Tyr Ile Gln Glu Phe Gln
 65                  70                  75                  80

Glu Phe Ser Lys Asn Ile Ser Val Met Leu Gly Arg Cys Gln Thr Tyr
                 85                  90                  95

Thr Ser Glu Tyr Lys Ser Ala Val Gly Asn Leu Ala Leu Arg Val Glu
            100                 105                 110

Arg Ala Gln Arg Glu Ile Asp Tyr Ile Gln Tyr Leu Arg Glu Ala Asp
        115                 120                 125

Glu Cys Ile Glu Ser Glu Asp Lys Thr Leu Ala Glu Met Leu Leu Gln
    130                 135                 140

Glu Ala Glu Glu Glu Lys Lys Ile Arg Thr Leu Leu Asn Ala Ser Cys
145                 150                 155                 160

Asp Asn Met Leu Met Gly Ile Lys Ser Leu Lys Ile Val Lys Lys Met
                165                 170                 175

Met Asp Thr His Gly Ser Trp Met Lys Asp Ala Val Tyr Asn Ser Pro
            180                 185                 190

Lys Val Tyr Leu Leu Ile Gly Ser Arg Asn Asn Thr Val Trp Glu Phe
        195                 200                 205

Ala Asn Ile Arg Ala Phe Met Glu Asp Asn Thr Lys Pro Ala Pro Arg
    210                 215                 220

Lys Gln Ile Leu Thr Leu Ser Trp Gln Gly Thr Gly Gln Val Ile Tyr
225                 230                 235                 240

Lys Gly Phe Leu Phe Phe His Asn Gln Ala Thr Ser Asn Glu Ile Ile
                245                 250                 255

Lys Tyr Asn Leu Gln Lys Arg Thr Val Glu Asp Arg Met Leu Leu Pro
            260                 265                 270

Gly Gly Val Gly Arg Ala Leu Val Tyr Gln His Ser Pro Ser Thr Tyr
        275                 280                 285

Ile Asp Leu Ala Val Asp Glu His Gly Leu Trp Ala Ile His Ser Gly
    290                 295                 300

Pro Gly Thr His Ser His Leu Val Leu Thr Lys Ile Glu Pro Gly Thr
305                 310                 315                 320

Leu Gly Val Glu His Ser Trp Asp Thr Pro Cys Arg Ser Gln Asp Ala
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                325                 330                 335

Glu Ala Ser Phe Leu Leu Cys Gly Val Leu Tyr Val Val Tyr Ser Thr
            340                 345                 350

Gly Gly Gln Gly Pro His Arg Ile Thr Cys Ile Tyr Asp Pro Leu Gly
        355                 360                 365

Thr Ile Ser Glu Glu Asp Leu Pro Asn Leu Phe Phe Pro Lys Arg Pro
    370                 375                 380

Arg Ser His Ser Met Ile His Tyr Asn Pro Arg Asp Lys Gln Leu Tyr
385                 390                 395                 400

Ala Trp Asn Glu Gly Asn Gln Ile Ile Tyr Lys Leu Gln Thr Lys Arg
                405                 410                 415

Lys Leu Thr Leu Lys
            420


<210> 120
<211> 27
<212> PRT
<213> Homo sapiens

<400> 120
Phe Pro Cys Ile Cys Leu Ser Gly Leu Leu Asp Leu Leu Ile Trp Arg
  1               5                  10                  15

Pro Phe Ser Glu Glu Leu Thr Lys Thr Phe Gly
             20                  25


<210> 121
<211> 84
<212> PRT
<213> Homo sapiens

<400> 121
Phe Pro Cys Ile Cys Leu Ser Gly Leu Leu Asp Leu Leu Ile Trp Arg
  1               5                  10                  15

Pro Phe Ser Glu Glu Leu Thr Lys Thr Phe Gly Met Val Ser Leu Leu
             20                  25                  30

Ser Ser Tyr Leu Leu Leu Leu Glu Leu Leu Ser Lys Arg Ser Leu Phe
         35                  40                  45

Leu Gln Trp Tyr Leu Phe Phe Gly Leu Gln Cys Cys Ser Ser Phe Leu
     50                  55                  60

Cys Arg Lys Asn Glu Ser Gln Cys Phe Thr Arg Leu Lys Glu Arg Ser
 65                  70                  75                  80

Ala Gly Ser Val


<210> 122
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<211> 24
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> MISC_FEATURE
<222> (24)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 122
Lys Asp Thr Cys Thr Arg Met Xaa Ile Ala Ala Leu Phe Thr Ile Ala
1 5 10 15

Lys Ile Trp Asn Gln Pro Lys Xaa
20

<210> 123
<211> 45
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (24)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> MISC_FEATURE
<222> (26)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 123
Arg His Met His Thr Tyr Val Tyr Cys Gly Thr Ile His Asn Ser Lys
1 5 10 15

Asp Leu Glu Pro Thr Gln Met Xaa Asp Xaa Ile Lys Lys Met Trp His
20 25 30

Leu Tyr Thr Thr Lys Tyr Tyr Ala Ala Ile Lys Lys Asp
35 40 45

<210> 124
<211> 14
<212> PRT
<213> Homo sapiens

<400> 124
Arg Lys Cys Gly Thr Tyr Ile Pro Arg Asn Thr Met Gln Pro
1 5 10

<210> 125
<211> 40

<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (9)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 125
Lys Arg Thr Glu Phe Met Ser Phe Xaa Gly Thr Trp Met Lys Leu Glu
1 5 10 15

Ala Ile Ile Leu Ser Lys Leu Thr Gln Glu Glu Lys Thr Lys His Leu
20 25 30

Met Phe Ser Leu Ile Ser Gly Ser
35 40

<210> 126
<211> 11
<212> PRT
<213> Homo sapiens

<400> 126
Pro Lys Ser Asp Thr Ser Pro Ala Ser Ser Arg
1 5 10

<210> 127
<211> 15
<212> PRT
<213> Homo sapiens

<400> 127
Pro Lys Ser Asp Thr Ser Pro Ala Ser Ser Arg Leu Cys Trp Asp
1 5 10 15

<210> 128
<211> 270
<212> PRT
<213> Homo sapiens

<400> 128
Tyr Val Pro Ser Phe Leu Pro Lys Ala Thr Gly Ser Ile Pro Ser Arg
1 5 10 15

Lys Gly Gly Val Gly Ser Glu Lys Pro Glu Val Pro Leu Gln Thr Tyr
20 25 30

Lys Glu Ile Val His Cys Cys Glu Glu Gln Val Leu Thr Leu Ala Thr
35 40 45

Glu Gln Thr Tyr Ala Val Glu Gly Glu Thr Pro Ile Asn Arg Leu Ser
50 55 60

Leu Leu Leu Ser Gly Arg Val Arg Val Ser Gln Asp Gly Gln Phe Leu
65 70 75 80

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His Tyr Ile Phe Pro Tyr Gln Phe Met Asp Ser Pro Glu Trp Glu Ser
                 85                  90                  95

Leu Gln Pro Ser Glu Glu Gly Val Phe Gln Val Thr Leu Thr Ala Glu
            100                 105                 110

Thr Ser Cys Ser Tyr Ile Ser Trp Pro Arg Lys Ser Leu His Leu Leu
        115                 120                 125

Leu Thr Lys Glu Arg Tyr Ile Ser Cys Leu Phe Ser Ala Leu Leu Gly
    130                 135                 140

Tyr Asp Ile Ser Glu Lys Leu Tyr Thr Leu Asn Asp Lys Leu Phe Ala
145                 150                 155                 160

Lys Phe Gly Leu Arg Phe Asp Ile Arg Leu Pro Ser Leu Tyr His Val
                165                 170                 175

Leu Gly Pro Thr Ala Ala Asp Ala Gly Pro Glu Ser Glu Lys Gly Asp
            180                 185                 190

Glu Glu Val Cys Glu Pro Ala Val Ser Pro Pro Gln Ala Thr Pro Thr
        195                 200                 205

Ser Leu Gln Gln Thr Pro Pro Cys Ser Thr Pro Pro Ala Thr Thr Asn
    210                 215                 220

Phe Pro Ala Pro Pro Thr Arg Ala Arg Leu Ser Arg Pro Asp Ser Gly
225                 230                 235                 240

Ile Leu Ala Ser Arg Ile Pro Leu Gln Ser Tyr Ser Gln Val Ile Ser
                245                 250                 255

Arg Gly Gln Ala Pro Leu Ala Pro Thr His Thr Pro Glu Leu
            260                 265                 270


<210> 129
<211> 21
<212> PRT
<213> Homo sapiens

<400> 129
Ala Thr Gly Ser Ile Pro Ser Arg Lys Gly Gly Val Gly Ser Glu Lys
  1               5                  10                  15

Pro Glu Val Pro Leu
             20


<210> 130
<211> 25
<212> PRT
<213> Homo sapiens

<400> 130
Ile Val His Cys Cys Glu Glu Gln Val Leu Thr Leu Ala Thr Glu Gln
  1               5                  10                  15

Thr Tyr Ala Val Glu Gly Glu Thr Pro
```

20 25

<210> 131
<211> 23
<212> PRT
<213> Homo sapiens

<400> 131
Gln Asp Gly Gln Phe Leu His Tyr Ile Phe Pro Tyr Gln Phe Met Asp
1 5 10 15

Ser Pro Glu Trp Glu Ser Leu
20

<210> 132
<211> 23
<212> PRT
<213> Homo sapiens

<400> 132
Thr Leu Thr Ala Glu Thr Ser Cys Ser Tyr Ile Ser Trp Pro Arg Lys
1 5 10 15

Ser Leu His Leu Leu Leu Thr
20

<210> 133
<211> 25
<212> PRT
<213> Homo sapiens

<400> 133
Asp Ile Ser Glu Lys Leu Tyr Thr Leu Asn Asp Lys Leu Phe Ala Lys
1 5 10 15

Phe Gly Leu Arg Phe Asp Ile Arg Leu
20 25

<210> 134
<211> 26
<212> PRT
<213> Homo sapiens

<400> 134
Ser Leu Tyr His Val Leu Gly Pro Thr Ala Ala Asp Ala Gly Pro Glu
1 5 10 15

Ser Glu Lys Gly Asp Glu Glu Val Cys Glu
20 25

<210> 135
<211> 28
<212> PRT
<213> Homo sapiens

<400> 135
Thr Thr Asn Phe Pro Ala Pro Pro Thr Arg Ala Arg Leu Ser Arg Pro
1 5 10 15

Asp Ser Gly Ile Leu Ala Ser Arg Ile Pro Leu Gln
20 25

<210> 136
<211> 196
<212> PRT
<213> Homo sapiens

<400> 136
Pro Lys Ser Asp Thr Ser Pro Ala Ser Ser Arg Leu Cys Trp Asp Met
1 5 10 15

Thr Ser Arg Arg Ser Ser Thr Leu Ser Met Thr Ser Ser Leu Leu Ser
20 25 30

Leu Gly Cys Ala Leu Thr Ser Ala Phe Pro Ala Ser Thr Met Ser Trp
35 40 45

Val Pro Leu Leu Gln Met Leu Asp Gln Ser Pro Arg Arg Val Met Arg
50 55 60

Lys Ser Val Ser Gln Leu Cys Pro Leu Leu Arg Pro His Pro Pro Leu
65 70 75 80

Ser Ser Lys His Pro Leu Val Leu Pro Leu Gln Leu Pro Pro Thr Phe
85 90 95

Leu His Leu Leu Pro Gly Pro Gly Cys Pro Gly Gln Thr Val Ala Tyr
100 105 110

Trp Leu Leu Glu Phe Leu Ser Arg Ala Thr Leu Lys Leu Tyr Pro Gly
115 120 125

Asp Arg Pro Leu Trp Leu Gln Pro Thr Arg Leu Asn Phe Lys Asp His
130 135 140

Trp Thr Ile Phe Ser Val Ala Ser Ala Ala Leu Phe Cys Val His Arg
145 150 155 160

Met Ala Thr Asp Arg His Ala Ser Phe Pro Thr His Trp Lys Ala His
165 170 175

Arg Gln Gly Glu Arg Gly His Arg Arg Cys Gln His Cys Arg Tyr Ser
180 185 190

Lys Asp Leu Lys
195

<210> 137
<211> 10
<212> PRT
<213> Homo sapiens

<400> 137

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Tyr Phe Ser His Gly Ile Cys Ser His Ala
  1               5                  10


<210> 138
<211> 55
<212> PRT
<213> Homo sapiens

<400> 138
Asn Ser Glu Asp Ile Ser Gln Thr Arg Gln Glu Leu Gly Leu Cys Ile
  1               5                  10                  15

Ser Gln Arg Cys Leu Ser Asp Arg Lys Lys Ser Arg Arg Ser Gly Val
             20                  25                  30

Trp Val Arg Ala Cys Thr Met Gln Phe Met Lys His Val Phe Pro Arg
         35                  40                  45

Leu Ile Ser Pro Arg Arg Pro
     50                  55


<210> 139
<211> 55
<212> PRT
<213> Homo sapiens

<400> 139
Pro Thr Arg His Phe Cys Gly Thr Ser Ser Cys Leu Thr Gly Thr Ala
  1               5                  10                  15

Val Arg Cys Arg Ala Pro Ala Pro Val Trp Ser Val Arg Cys Pro His
             20                  25                  30

Cys Phe Arg Ser Ser Asp Ala Trp Val Asp Pro Gly Ile Pro Asp Arg
         35                  40                  45

Tyr Leu Gln Ala Tyr Leu Leu
     50                  55


<210> 140
<211> 246
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 140
Gly Glu Ala Met Asp Ala Glu Xaa Ala Val Ala Pro Pro Gly Cys Ser
  1               5                  10                  15

His Leu Gly Ser Phe Lys Val Asp Asn Trp Lys Gln Asn Leu Arg Ala
             20                  25                  30

Ile Tyr Gln Cys Phe Val Trp Ser Gly Thr Ala Glu Ala Arg Lys Arg
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         35                  40                  45

Lys Ala Lys Ser Cys Ile Cys His Val Cys Gly Val His Leu Asn Arg
     50                  55                  60

Leu His Ser Cys Leu Tyr Cys Val Phe Phe Gly Cys Phe Thr Lys Lys
 65                  70                  75                  80

His Ile His Glu His Ala Lys Ala Lys Arg His Asn Leu Ala Ile Asp
                 85                  90                  95

Leu Met Tyr Gly Gly Ile Tyr Cys Phe Leu Cys Gln Asp Tyr Ile Tyr
            100                 105                 110

Asp Lys Asp Met Glu Ile Ile Ala Lys Glu Glu Gln Arg Lys Ala Trp
        115                 120                 125

Lys Met Gln Gly Val Gly Glu Lys Phe Ser Thr Trp Glu Pro Thr Lys
    130                 135                 140

Arg Glu Leu Glu Leu Leu Lys His Asn Pro Lys Arg Arg Lys Ile Thr
145                 150                 155                 160

Ser Asn Cys Thr Ile Gly Leu Arg Gly Leu Ile Asn Leu Gly Asn Thr
                165                 170                 175

Cys Phe Met Asn Cys Ile Val Gln Ala Leu Thr His Thr Pro Leu Leu
            180                 185                 190

Arg Asp Phe Phe Leu Ser Asp Arg His Arg Cys Glu Met Gln Ser Pro
        195                 200                 205

Ser Ser Cys Leu Val Cys Glu Met Ser Ser Leu Phe Gln Glu Phe Gly
    210                 215                 220

Arg Val Gly Arg Pro Gly Asn Ser Gly Pro Val Pro Ala Gly Val Pro
225                 230                 235                 240

Ser Ile Val Ser Pro Glu
                245


<210> 141
<211> 24
<212> PRT
<213> Homo sapiens

<400> 141
Val Ala Pro Pro Gly Cys Ser His Leu Gly Ser Phe Lys Val Asp Asn
  1               5                  10                  15

Trp Lys Gln Asn Leu Arg Ala Ile
            20


<210> 142
<211> 23
<212> PRT
<213> Homo sapiens
```

<400> 142
Thr Ala Glu Ala Arg Lys Arg Lys Ala Lys Ser Cys Ile Cys His Val
1 5 10 15

Cys Gly Val His Leu Asn Arg
20

<210> 143
<211> 23
<212> PRT
<213> Homo sapiens

<400> 143
Phe Thr Lys Lys His Ile His Glu His Ala Lys Ala Lys Arg His Asn
1 5 10 15

Leu Ala Ile Asp Leu Met Tyr
20

<210> 144
<211> 21
<212> PRT
<213> Homo sapiens

<400> 144
Tyr Asp Lys Asp Met Glu Ile Ile Ala Lys Glu Glu Gln Arg Lys Ala
1 5 10 15

Trp Lys Met Gln Gly
20

<210> 145
<211> 28
<212> PRT
<213> Homo sapiens

<400> 145
Glu Leu Leu Lys His Asn Pro Lys Arg Arg Lys Ile Thr Ser Asn Cys
1 5 10 15

Thr Ile Gly Leu Arg Gly Leu Ile Asn Leu Gly Asn
20 25

<210> 146
<211> 26
<212> PRT
<213> Homo sapiens

<400> 146
Gly Asn Thr Cys Phe Met Asn Cys Ile Val Gln Ala Leu Thr His Thr
1 5 10 15

Pro Leu Leu Arg Asp Phe Phe Leu Ser Asp
20 25

<210> 147
<211> 20
<212> PRT
<213> Homo sapiens

<400> 147
Glu Phe Gly Arg Val Gly Arg Pro Gly Asn Ser Gly Pro Val Pro Ala
1 5 10 15

Gly Val Pro Ser
20

<210> 148
<211> 108
<212> PRT
<213> Homo sapiens

<400> 148
Asn Ser Glu Asp Ile Ser Gln Thr Arg Gln Glu Leu Gly Leu Cys Ile
1 5 10 15

Ser Gln Arg Cys Leu Ser Asp Arg Lys Lys Ser Arg Arg Ser Gly Val
20 25 30

Trp Val Arg Ala Cys Thr Met Gln Phe Met Lys His Val Phe Pro Arg
35 40 45

Leu Ile Ser Pro Arg Arg Pro Met Val Gln Phe Glu Val Ile Phe Leu
50 55 60

Leu Phe Gly Leu Cys Phe Ser Ser Ser Ser Ser Arg Leu Val Gly Ser
65 70 75 80

Gln Val Glu Asn Phe Ser Pro Thr Pro Cys Ile Phe Gln Ala Phe Arg
85 90 95

Cys Ser Ser Leu Ala Ile Ile Ser Met Ser Leu Ser
100 105

<210> 149
<211> 7
<212> PRT
<213> Homo sapiens

<400> 149
Ala Phe Pro Trp Pro Thr Ser
1 5

<210> 150
<211> 23
<212> PRT
<213> Homo sapiens

<400> 150
Glu Ser Asn Phe Phe Tyr Pro Tyr Asp Ser Gln Leu Ala Leu Leu Ser
1 5 10 15

Ser Val Thr Cys Ser Ala Ser
20

<210> 151
<211> 83
<212> PRT
<213> Homo sapiens

<400> 151
Lys Leu Lys Met Phe Ala Phe Tyr Val Gln Val Leu Asn Gln Ser Lys
1 5 10 15

Ser Ile Phe Val Tyr Ser Arg Asn Leu Ile Phe Phe Ile His Met Ile
20 25 30

Val Ser Trp Pro Ser Phe Leu Gln Leu Pro Ala Val His Gln Cys His
35 40 45

Gln Ser Ser Val His Ile Cys Gly Val Ser Gly Leu Phe Pro Ser Ser
50 55 60

Asn Tyr Gln Cys Leu Ser Leu Cys Gln Asn His Thr Val Leu Ile Ile
65 70 75 80

Thr Thr Leu

<210> 152
<211> 48
<212> PRT
<213> Homo sapiens

<400> 152
Ser Ile Leu Asn Val Ile Pro Asn Leu Ser Lys Gln Ser Phe Glu Glu
1 5 10 15

Phe Asp Arg Leu Ile Leu Lys Tyr Met Gln Lys Ser Lys Ser Lys Arg
20 25 30

Ile Ala Lys Ile Leu Leu Ser Asn Lys Lys Thr Cys Pro Thr Lys Tyr
35 40 45

<210> 153
<211> 36
<212> PRT
<213> Homo sapiens

<400> 153
Leu Pro Gln Ile Leu Arg Trp Leu Lys Tyr His Gln Ser Val Trp Gly
1 5 10 15

Lys Gln Thr Pro Val Thr Leu His Tyr Leu Thr Leu Asp Leu Ile Gln
20 25 30

```
Glu Phe Thr Pro
         35


<210> 154
<211> 33
<212> PRT
<213> Homo sapiens

<400> 154
Ile Phe Val Tyr Ser Arg Asn Leu Ile Phe Phe Ile His Met Ile Val
  1               5                  10                  15

Ser Trp Pro Ser Phe Leu Gln Leu Pro Ala Val His Gln Cys His Gln
             20                  25                  30

Ser



<210> 155
<211> 184
<212> PRT
<213> Homo sapiens

<400> 155
Pro Thr Gly Asn Asp Leu Val Tyr Val Phe Pro Cys Leu Leu Ser Val
  1               5                  10                  15

Phe Ser Arg Met Glu Glu Pro Ser Val Phe Cys Leu Phe Phe Pro Leu
             20                  25                  30

Ser Ile Leu Ile Ser Ser Ala Ser Arg Thr Phe Pro Gly Thr Gln Gln
         35                  40                  45

Val Phe Ser Ile Val His Gly Val Thr Asp Val Ser Ala Lys Lys Val
     50                  55                  60

Gln Ser Gln Gly Arg Met Thr Ser Thr Gly Leu Asp Phe Asn Leu Leu
 65                  70                  75                  80

Pro Ala Trp Phe Pro Ser Pro Thr Ser Leu Gln Pro Thr Glu Asp Leu
                 85                  90                  95

Phe Gln Thr Gly Ser Leu Ser Arg Ser Phe Phe Cys Ser Lys Ala Phe
            100                 105                 110

Ser Ser Ser Pro Leu Ser Pro Gly Gly Ser Pro Asn Ala Leu Thr Ser
        115                 120                 125

Val Lys Glu His Leu Val Ser Pro Ala Phe Leu Ala Ser His Ser Cys
    130                 135                 140

Thr Ala Glu Ser Phe Pro Arg Val Asp Val Ile His Ala Val Pro Ile
145                 150                 155                 160

Ala Trp Ile Pro Ala Pro Leu His Pro Ile Gln Leu Ile Asn Ser Trp
                165                 170                 175

Phe Phe Phe Phe Phe Phe Phe Phe
```

180

<210> 156
<211> 24
<212> PRT
<213> Homo sapiens

<400> 156
Asp Leu Val Tyr Val Phe Pro Cys Leu Leu Ser Val Phe Ser Arg Met
1 5 10 15

Glu Glu Pro Ser Val Phe Cys Leu
20

<210> 157
<211> 24
<212> PRT
<213> Homo sapiens

<400> 157
Ile Ser Ser Ala Ser Arg Thr Phe Pro Gly Thr Gln Gln Val Phe Ser
1 5 10 15

Ile Val His Gly Val Thr Asp Val
20

<210> 158
<211> 20
<212> PRT
<213> Homo sapiens

<400> 158
Phe Asn Leu Leu Pro Ala Trp Phe Pro Ser Pro Thr Ser Leu Gln Pro
1 5 10 15

Thr Glu Asp Leu
20

<210> 159
<211> 25
<212> PRT
<213> Homo sapiens

<400> 159
Phe Cys Ser Lys Ala Phe Ser Ser Ser Pro Leu Ser Pro Gly Gly Ser
1 5 10 15

Pro Asn Ala Leu Thr Ser Val Lys Glu
20 25

<210> 160
<211> 23
<212> PRT
<213> Homo sapiens

<400> 160
Thr Ala Glu Ser Phe Pro Arg Val Asp Val Ile His Ala Val Pro Ile
1 5 10 15

Ala Trp Ile Pro Ala Pro Leu
20

<210> 161
<211> 34
<212> PRT
<213> Homo sapiens

<400> 161
Phe Ser Phe Leu Lys Pro Leu Cys Ala Pro Arg Ala Pro Trp Leu Trp
1 5 10 15

Leu Pro Pro Ser Ser Lys Ser Arg Val His Val Gly Pro Gly Asp Phe
20 25 30

Arg Ser

<210> 162
<211> 122
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (108)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 162
Val Cys Gly Thr Gly Gly Leu Glu Pro Asn Leu Ala Trp Val Arg Val
1 5 10 15

Asp Asn Gly Ser Phe Pro Ser Ser Ser Pro Ser Val Pro Leu Glu His
20 25 30

Pro Gly Cys Gly Cys Leu Leu His Pro Arg Ala Glu Ser Met Leu Gly
35 40 45

Gln Glu Thr Ser Asp Pro Cys Pro Gly Ala Ala Ser Gly Phe Val Phe
50 55 60

Pro Gln Trp Ala Gly Leu Gly Leu Leu Val His Leu Tyr Pro Ser Leu
65 70 75 80

Ser Tyr Ala Ala Leu Ala Cys Cys Val Ser Gly Leu Tyr Ser Leu Pro
85 90 95

Phe Thr Gln Ala Leu Gly Asn Gln Pro Ser Phe Xaa Gln Glu Arg Gln
100 105 110

Arg Arg Ser Met Pro Leu Leu Trp Ala Ser
115 120

<210> 163
<211> 8
<212> PRT
<213> Homo sapiens

<400> 163
His Ala Gly Arg Lys Thr Val Lys
1 5

<210> 164
<211> 61
<212> PRT
<213> Homo sapiens

<400> 164
Ser Phe Tyr Ala Lys Met Pro Met Glu Arg Lys Ala Leu Glu Met Val
1 5 10 15

Glu Lys Cys Leu Asp Lys Tyr Phe Gln His Leu Cys Asp Asp Leu Glu
20 25 30

Val Phe Ala Ala His Ala Gly Arg Lys Thr Val Lys Pro Glu Asp Leu
35 40 45

Glu Leu Leu Met Arg Arg Gln Gly Leu Val Thr Asp Gln
50 55 60

<210> 165
<211> 19
<212> PRT
<213> Homo sapiens

<400> 165
Pro Met Glu Arg Lys Ala Leu Glu Met Val Glu Lys Cys Leu Asp Lys
1 5 10 15

Tyr Phe Gln

<210> 166
<211> 22
<212> PRT
<213> Homo sapiens

<400> 166
Glu Val Phe Ala Ala His Ala Gly Arg Lys Thr Val Lys Pro Glu Asp
1 5 10 15

Leu Glu Leu Leu Met Arg
20

<210> 167
<211> 31
<212> PRT
<213> Homo sapiens

<400> 167
Ser Phe Pro Ser Ser Ser Pro Ser Val Pro Leu Glu His Pro Gly Cys
1 5 10 15

Gly Cys Leu Leu His Pro Arg Ala Glu Ser Met Leu Gly Gln Glu
20 25 30

<210> 168
<211> 27
<212> PRT
<213> Homo sapiens

<400> 168
Tyr Pro Ser Leu Ser Tyr Ala Ala Leu Ala Cys Cys Val Ser Gly Leu
1 5 10 15

Tyr Ser Leu Pro Phe Thr Gln Ala Leu Gly Asn
20 25

<210> 169
<211> 353
<212> PRT
<213> Homo sapiens

<400> 169
Phe Ser Phe Leu Lys Pro Leu Cys Ala Pro Arg Ala Pro Trp Leu Trp
1 5 10 15

Leu Pro Pro Ser Ser Lys Ser Arg Val His Val Gly Pro Gly Asp Phe
20 25 30

Arg Ser Met Ser Trp Cys Cys Leu Trp Leu Cys Leu Ser Ser Val Gly
35 40 45

Arg Thr Gly Ser Ala Gly Pro Ser Leu Pro Phe Ser Glu Leu Cys Ser
50 55 60

Leu Gly Leu Leu Arg Leu Arg Pro Val Phe Ser Pro Leu His Ser Gly
65 70 75 80

Pro Gly Lys Pro Ala Gln Phe Leu Ala Gly Glu Ala Glu Glu Val Asn
85 90 95

Ala Phe Ala Leu Gly Phe Leu Ser Thr Ser Ser Gly Val Ser Gly Glu
100 105 110

Asp Glu Val Glu Pro Leu His Asp Gly Val Glu Glu Ala Glu Lys Lys
115 120 125

Met Glu Glu Glu Gly Val Ser Val Ser Glu Met Glu Ala Thr Gly Ala
130 135 140

Gln Gly Pro Ser Arg Val Glu Glu Ala Glu Gly His Thr Glu Val Thr
145 150 155 160

Glu Ala Glu Gly Ser Gln Gly Thr Ala Glu Ala Asp Gly Pro Gly Ala
165 170 175

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Ser Ser Gly Asp Glu Asp Ala Ser Gly Arg Ala Ala Ser Pro Glu Ser
            180                 185                 190

Ala Ser Ser Thr Pro Glu Ser Leu Gln Ala Arg Arg His His Gln Phe
        195                 200                 205

Leu Glu Pro Ala Pro Ala Pro Gly Ala Ala Val Leu Ser Ser Glu Pro
    210                 215                 220

Ala Glu Pro Leu Leu Val Arg His Pro Pro Arg Pro Arg Thr Thr Gly
225                 230                 235                 240

Pro Arg Pro Arg Gln Asp Pro His Lys Ala Gly Leu Ser His Tyr Val
                245                 250                 255

Lys Leu Phe Ser Phe Tyr Ala Lys Met Pro Met Glu Arg Lys Ala Leu
            260                 265                 270

Glu Met Val Glu Lys Cys Leu Asp Lys Tyr Phe Gln His Leu Cys Asp
        275                 280                 285

Asp Leu Glu Val Phe Ala Ala His Ala Gly Arg Lys Thr Val Lys Pro
    290                 295                 300

Glu Asp Leu Glu Leu Leu Met Arg Arg Gln Gly Leu Val Thr Asp Gln
305                 310                 315                 320

Val Ser Leu His Val Leu Val Glu Arg His Leu Pro Leu Glu Tyr Arg
                325                 330                 335

Gln Leu Leu Ile Pro Cys Ala Tyr Ser Gly Asn Ser Val Phe Pro Ala
            340                 345                 350

Gln
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<210> 170
<211> 27
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (18)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 170
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Ala Pro Gly Gly Val Asn Ser Glu Gly Arg Gly Gln His Leu Pro Pro
  1               5                  10                  15

Pro Xaa Leu Ala Val Cys Leu Lys Leu His Leu
             20                  25
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<210> 171
<211> 198
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (18)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 171
Ala Pro Gly Gly Val Asn Ser Glu Gly Arg Gly Gln His Leu Pro Pro
1 5 10 15

Pro Xaa Leu Ala Val Cys Leu Lys Leu His Leu Met Ser Leu Pro Ile
20 25 30

Pro Trp Leu Ser Leu Pro Pro Cys Pro Ile Leu Gly Gln Pro Ala Gly
35 40 45

Leu Leu Leu Trp Leu Phe Arg Pro Phe Ser Gln Cys Cys Gln Cys Pro
50 55 60

Trp Glu Gly Arg Ala Ser Leu Arg His Pro Asn Gly Pro Ser Gly Cys
65 70 75 80

Arg Glu Ala Glu Ala Trp Pro Gln Arg Ser Leu Leu Arg Gln Gln Leu
85 90 95

Gln Gln Ala His Pro Leu Pro Thr Leu Pro Thr Pro Glu Arg Leu Pro
100 105 110

Glu Gln Met Leu Phe Pro Ser Ser Ser Ser Lys Pro Phe Ser Leu Leu
115 120 125

Ser Leu Thr Ile Trp Ala Arg Leu Val Gly Arg Leu Thr Asn Arg Ile
130 135 140

Cys Pro Val Pro Pro Gly Ser Val Ala Ser Ser Met Ser Leu Gln Ala
145 150 155 160

Gly Arg Cys Gly Asn Pro Val Val Leu Pro Gln Pro Met Pro Pro Gly
165 170 175

Leu Leu Cys Met Asn Glu Cys Ser Leu Val Pro Gly Leu Gly Arg Gly
180 185 190

Gln Val Asn Ser Arg Val
195

<210> 172
<211> 44
<212> PRT
<213> Homo sapiens

<400> 172
Asn Ser Ala Glu Pro Ala Trp Val Pro Val Cys Ala Arg Gly Gly Gly
1 5 10 15

Ala Gly Cys Gly Arg Arg Arg Gly Arg Arg Phe Cys Ala Ala Gly Ala
20 25 30

Val Pro Ala Ala Glu Arg Gly Gly Glu Asn Gly Ser
35 40

<210> 173
<211> 124
<212> PRT
<213> Homo sapiens

<400> 173
Ser Leu Val Pro Ala Leu Lys Glu Val Val Val Leu Trp Arg Arg Gln
  1   5   10   15

Met Val Leu Tyr Leu Val Trp Ala Phe Ile Pro Glu Ser Trp Leu Asn
             20   25   30

Ser Leu Gly Leu Thr Tyr Trp Pro Gln Lys Tyr Trp Ala Val Ala Leu
         35   40   45

Pro Val Tyr Leu Leu Ile Ala Ile Val Ile Gly Tyr Val Leu Leu Phe
     50   55   60

Gly Ile Asn Met Met Ser Thr Ser Pro Leu Asp Ser Ile His Thr Ile
 65   70   75   80

Thr Asp Asn Tyr Ala Lys Asn Gln Gln Gln Lys Lys Tyr Gln Glu Glu
                 85   90   95

Ala Ile Pro Ala Leu Arg Asp Ile Ser Ile Ser Glu Val Asn Gln Met
            100   105   110

Phe Phe Leu Ala Ala Lys Glu Leu Tyr Thr Lys Asn
        115   120

<210> 174
<211> 28
<212> PRT
<213> Homo sapiens

<400> 174
Met Val Leu Tyr Leu Val Trp Ala Phe Ile Pro Glu Ser Trp Leu Asn
  1   5   10   15

Ser Leu Gly Leu Thr Tyr Trp Pro Gln Lys Tyr Trp
             20   25

<210> 175
<211> 25
<212> PRT
<213> Homo sapiens

<400> 175
Tyr Trp Ala Val Ala Leu Pro Val Tyr Leu Leu Ile Ala Ile Val Ile
  1   5   10   15

Gly Tyr Val Leu Leu Phe Gly Ile Asn
             20   25

<210> 176

<211> 22
<212> PRT
<213> Homo sapiens

<400> 176
Gln Gln Gln Lys Lys Tyr Gln Glu Glu Ala Ile Pro Ala Leu Arg Asp
1 5 10 15

Ile Ser Ile Ser Glu Val
20

<210> 177
<211> 104
<212> PRT
<213> Homo sapiens

<400> 177
Asn Ser Ala Glu Pro Ala Trp Val Pro Val Cys Ala Arg Gly Gly Gly
1 5 10 15

Ala Gly Cys Gly Arg Arg Arg Gly Arg Arg Phe Cys Ala Ala Gly Ala
20 25 30

Val Pro Ala Ala Glu Arg Gly Gly Glu Asn Gly Ser Met Val Ser Arg
35 40 45

Ser Thr Ser Leu Thr Leu Ile Val Phe Leu Phe His Arg Leu Ser Lys
50 55 60

Ala Pro Gly Lys Met Val Glu Asn Ser Pro Ser Pro Leu Pro Glu Arg
65 70 75 80

Ala Ile Tyr Gly Phe Val Leu Phe Leu Ser Ser Gln Phe Gly Phe Lys
85 90 95

Asn Leu Lys Gly Ser Arg Val Cys
100

<210> 178
<211> 32
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (26)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 178
Leu Ser Pro Arg Leu Phe Asp Ala Gly Ile Leu Leu Trp Gly Ala Ser
1 5 10 15

Val Asn Val Thr Ile Trp Glu Val Arg Xaa Ala Gln Ser Ser Ala Ser
20 25 30

<210> 179
<211> 132
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (26)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> MISC_FEATURE
<222> (52)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> MISC_FEATURE
<222> (69)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 179
Leu Ser Pro Arg Leu Phe Asp Ala Gly Ile Leu Leu Trp Gly Ala Ser
1 5 10 15

Val Asn Val Thr Ile Trp Glu Val Arg Xaa Ala Gln Ser Ser Ala Ser
20 25 30

Met Leu Pro Ser Ala Trp Gly Pro Leu Gln Val Ala Ser Phe Phe Leu
35 40 45

Leu Ser Phe Xaa Phe Cys Phe Leu Ser Ser Ser Pro His Leu Gly Arg
50 55 60

Gln Glu Thr His Xaa Val Val Leu Glu Asp Asp Glu Gly Ala Pro Cys
65 70 75 80

Pro Ala Glu Asp Glu Leu Ala Leu Gln Asp Asn Gly Phe Leu Ser Lys
85 90 95

Asn Glu Val Leu Arg Thr Arg Cys Leu Gly Ser Arg Ser Gly Ser Ala
100 105 110

Ser Ala Thr Pro Pro Thr Thr Ser Gly Thr Ala Arg Ala Ala Arg Pro
115 120 125

Pro Ser Gln Cys
130

<210> 180
<211> 32
<212> PRT
<213> Homo sapiens

<400> 180
Asn Leu Thr Ser Asp Pro Arg Pro Leu Ala Leu Pro Pro Pro Cys Gly
1 5 10 15

Asp Phe Ile Lys Val Thr Ser Phe Ser Pro Gly Leu Glu Thr His Thr

20 25 30

<210> 181
<211> 135
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (14)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 181
Glu Gln Gln Arg Leu Arg Asp Arg Glu Thr Gln Thr Gly Xaa Asp Ser
1 5 10 15

Arg Ala Lys Thr Gln Arg Gly Glu Asp Gly Glu Ser Glu Arg Gly Arg
20 25 30

Trp Arg Leu Arg Glu Gly Glu Asp Gly Asp Ser Glu Arg Glu Glu Asp
35 40 45

Gly Asp Ser Glu Arg Trp Arg Leu Arg Ser Met Glu Ser Gln Arg Gly
50 55 60

Glu Asp Gly His Ser Gly Gly Trp Arg Val Arg Arg Met Glu Thr His
65 70 75 80

Arg Lys Gly Arg Met Glu Ser Gln Glu Arg Leu Glu Thr Gly Glu Gly
85 90 95

Ile Glu Thr Gln Arg Gly Glu Asp Gly Asp Ser Glu Gly Gly Arg Trp
100 105 110

Arg Leu Lys Glu Asp Gly Asn Pro Gly Glu Arg Arg Thr Glu Met Arg
115 120 125

Gln Arg Leu Gly Glu Ala Gly
130 135

<210> 182
<211> 220
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (7)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 182
Gly His Gly Val Ala Gly Xaa Cys Leu Pro Gln Pro Leu Leu Pro Pro
1 5 10 15

Ser Pro Pro Asp Tyr Asp Glu Arg Ser His Leu His Asp Thr Phe Thr

```
            20                  25                  30

Gln Met Thr His Ala Leu Gln Glu Leu Ala Ala Ala Gln Gly Ser Phe
         35                  40                  45

Glu Val Ala Phe Pro Asp Ala Ala Glu Lys Met Lys Lys Val Phe Thr
     50                  55                  60

Gln Leu Lys Glu Ala Gln Ala Cys Ile Pro Pro Cys Glu Gly Leu Gln
 65                  70                  75                  80

Glu Phe Ala Arg Arg Phe Leu Cys Ser Gly Cys Tyr Ser Arg Val Cys
                 85                  90                  95

Asp Leu Pro Leu Asp Cys Pro Val Gln Asp Val Thr Val Thr Arg Gly
            100                 105                 110

Asp Gln Ala Met Phe Ser Cys Ile Val Asn Phe Gln Leu Pro Lys Glu
        115                 120                 125

Glu Ile Thr Tyr Ser Trp Lys Phe Ala Gly Gly Gly Leu Arg Thr Gln
    130                 135                 140

Asp Leu Ser Tyr Phe Arg Asp Met Pro Arg Ala Glu Gly Tyr Leu Ala
145                 150                 155                 160

Arg Ile Arg Pro Ala Gln Leu Thr His Arg Gly Thr Phe Ser Cys Val
                165                 170                 175

Ile Lys Gln Asp Gln Arg Pro Leu Ala Arg Leu Tyr Phe Phe Leu Asn
            180                 185                 190

Val Thr Gly Arg Pro Arg Gly Arg Arg Gln Ser Cys Arg Pro Arg Ser
        195                 200                 205

Gly Lys Cys Cys Ala Gly Arg Arg Gly Met Pro Ser
    210                 215                 220


<210> 183
<211> 41
<212> PRT
<213> Homo sapiens

<400> 183
Gly Asp His Pro His Phe Ile Ser Val Leu Gly Lys Val Gln Arg Glu
  1               5                  10                  15

Gly Arg Arg Gly Pro Glu Gly Gln Ala Glu Gly Gln Thr Glu Arg Asn
             20                  25                  30

Ser Gln Arg Arg Lys Ala Gln Arg Pro
         35                  40


<210> 184
<211> 129
<212> PRT
<213> Homo sapiens
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<400> 184
Asn Leu Thr Ser Asp Pro Arg Pro Leu Ala Leu Pro Pro Pro Cys Gly
1 5 10 15

Asp Phe Ile Lys Val Thr Ser Phe Ser Pro Gly Leu Glu Thr His Thr
20 25 30

Met Ala Leu Leu Ala Leu Ala Ser Ala Val Pro Ser Ala Leu Leu Ala
35 40 45

Leu Ala Val Phe Arg Val Pro Ala Trp Ala Cys Leu Leu Cys Phe Thr
50 55 60

Thr Tyr Ser Glu Arg Leu Arg Ile Cys Gln Met Phe Val Gly Met Arg
65 70 75 80

Ser Pro Ser Leu Lys Ser Val Arg Arg Pro Ser Arg Pro Pro Ser Arg
85 90 95

Ala Ser Leu Thr Pro Lys Ser Val Arg Arg Pro Ser Thr Leu His Gln
100 105 110

Cys Pro Gly Glu Gly Ala Glu Gly Gly Gln Glu Arg Pro Arg Gly Ser
115 120 125

Gly

<210> 185
<211> 13
<212> PRT
<213> Homo sapiens

<400> 185
Met Leu Val Tyr Gln Asn Gln Ala Gln Phe Ser Ser Asn
1 5 10

<210> 186
<211> 65
<212> PRT
<213> Homo sapiens

<400> 186
Met Leu Val Tyr Gln Asn Gln Ala Gln Phe Ser Ser Asn Met Trp Leu
1 5 10 15

Asn Phe Ser Asp Val His Thr Tyr Leu Ser Ser Ile Ala Leu Leu Cys
20 25 30

Phe Cys Leu Ser Gly Val Leu Cys Cys Ile Cys Asn Asn Ser Val Phe
35 40 45

His Ile Gln Gln Tyr Ile Leu Ile Ile Ile Thr Phe Pro Leu Val Val
50 55 60

Ile
65